

SONY®

HD DIGITAL VIDEOCASSETTE RECORDER

HDW-2000

HDW-D2000

HDW-M2000/M2000P

HDW-S2000/S2000P

HD DIGITAL VIDEOCASSETTE PLAYER

HDW-A2100

HDW-M2100/M2100P

DIGITAL VIDEOCASSETTE RECORDER

DVW-2000/2000P

DVW-M2000/M2000P

MSW-2000

MSW-A2000/A2000P

MSW-M2000/M2000P

MSW-M2000E/M2000EP

DIGITAL VIDEOCASSETTE PLAYER

MSW-M2100/M2100P

MSW-M2100E/M2100EP

CONTROL PANEL UNIT

HKDW-101

BKDW-101

BKMW-101

SDTI INTERFACE BOARD

HKDW-102

HD UPCONVERTER BOARD

BKMW-104

NETWORK INTERFACE BOARD

BKMW-E2000

BKMW-E3000

HDCAM

Digital BETACAM™

mpeg imx

Tele-File

MEMORY STICK

MAINTENANCE MANUAL

Volume 3 2nd Edition (Revised 3)

⚠ 警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

設置や保守、点検、修理などを行う前に、別冊のメンテナンスマニュアルVolume 1、インストレーションマニュアル、オペレーションマニュアルのそれぞれの「安全のために」を必ずお読みください。

⚠ WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

HDW-2000 (SY)	Serial No. 15001 and higher	MSW-2000 (SY)	Serial No. 10001 and higher
HDW-2000 (J)	Serial No. 35001 and higher	MSW-A2000 (SY)	Serial No. 15001 and higher
HDW-A2100 (J)	Serial No. 35001 and higher	MSW-A2000 (J)	Serial No. 35001 and higher
HDW-D2000 (SY)	Serial No. 16001 and higher	MSW-M2000 (SY)	Serial No. 15001 and higher
HDW-M2000 (SY)	Serial No. 15001 and higher	MSW-M2000 (J)	Serial No. 35001 and higher
HDW-M2000 (J)	Serial No. 35001 and higher	MSW-M2000E (SY)	Serial No. 10001 and higher
HDW-S2000 (SY)	Serial No. 16001 and higher	MSW-M2000E (J)	Serial No. 30001 and higher
HDW-S2000 (J)	Serial No. 36001 and higher	MSW-M2100 (SY)	Serial No. 15001 and higher
HDW-M2100 (SY)	Serial No. 15001 and higher	MSW-M2100 (J)	Serial No. 35001 and higher
HDW-M2100 (J)	Serial No. 35001 and higher	MSW-M2100E (SY)	Serial No. 10001 and higher
HDW-M2000P (SY)	Serial No. 45001 and higher	MSW-M2100E (J)	Serial No. 30001 and higher
HDW-S2000P (SY)	Serial No. 46001 and higher	MSW-A2000P (SY)	Serial No. 45001 and higher
HDW-M2100P (SY)	Serial No. 45001 and higher	MSW-M2000P (SY)	Serial No. 45001 and higher
DVW-2000 (SY)	Serial No. 10001 and higher	MSW-M2000EP (SY)	Serial No. 40001 and higher
DVW-M2000 (SY)	Serial No. 10001 and higher	MSW-M2100P (SY)	Serial No. 45001 and higher
DVW-2000P (SY)	Serial No. 40001 and higher	MSW-M2100EP (SY)	Serial No. 40001 and higher
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このマニュアルについて

本書の目的

本書は下記機種のメンテナンスマニュアル Volume 3 です。

HD デジタルビデオカセットレコーダ	HDW-2000/D2000/M2000/S2000
HD デジタルビデオカセットプレーヤ	HDW-A2100/M2100
コントロールパネルユニット	HKDW-101
SDTI インターフェースボード	HKDW-102

デジタルビデオカセットレコーダ	DVW-2000/M2000
コントロールパネルユニット	BKDW-101

デジタルビデオカセットレコーダ	MSW-2000/A2000/M2000/M2000E
デジタルビデオカセットプレーヤ	MSW-M2100/M2100E
コントロールパネルユニット	BKMW-101
HD アップコンバータボード	BKMW-104
ネットワークインターフェースボード	BKMW-E2000/E3000

本機のメンテナンスマニュアル (Volume 1, 2, 3) は、システム/サービスエンジニアの方々にご使用いただくことを想定し、保守に関する情報と部品レベルでのサービスを前提とした情報 (部品交換, 調整要項, 回路図, マウント図, 詳細パーツリスト等) を記載しています。

本書 (Volume 3) では、回路図を記載しています。

関連マニュアル

本機には、この「メンテナンスマニュアル」のほかに、下記のマニュアルが用意されています。

- ・ **オペレーションマニュアル (本機またはオプションに付属)**
本機を実際に運用および操作するのに必要なマニュアルです。設置時にも必要です。
- ・ **インストレーションマニュアル (本機またはオプションに付属)**
本機の納入設置時に必要な情報を記載したマニュアルです。
- ・ **リモート (9 ピン) コネクタプロトコルマニュアル (別途用意)**
本機を RS-422A (9 ピンシリアルリモート) にて制御するためのプロトコルについて説明したマニュアルです。入手を希望される方は、ソニーの営業窓口にお問い合わせください。
- ・ **パラレル I/O (50 ピン) コネクタインターフェイスマニュアル (別途用意)**
本機をパラレル 50 ピンにて制御するためのプロトコルについて説明したマニュアルです。入手を希望される方は、ソニーの営業窓口にお問い合わせください。

• “Semiconductor Pin Assignments” CD-ROM 版（別途用意）

この“Semiconductor Pin Assignments” CD-ROM 版は、本機に使用されている半導体を検索することができます。

このCD-ROMで検索できない半導体は、本機のメンテナンスマニュアルVolume 2に記載されています。メンテナンスマニュアルVolume 2には、その機種に使用されているすべての半導体一覧とそのID番号を記載していますので、このCD-ROM版と合わせて使用してください。

部品番号：9-968-546-XX

構成

メンテナンスマニュアルの構成を把握していただくために、全章の概略を以下に説明します。

メンテナンスマニュアル
Volume 3
(9-967-903-1X)

Section 1 Schematic Diagrams and Frame Wiring
フレーム図、回路図を記載しています。

メンテナンスマニュアル
Volume 1
(9-967-900-1X)

第1章 サービスインフォメーション

本機のサービス時に必要となる情報の基礎的な部分（外装やカセットコンパートメントの取り外し、回路構成、主要部品配置図、治工具／測定器情報、注意事項など）、異常発生時の処置／案内、ISRなどについて説明しています。

ISR: Interactive Status Reporting

第2章 エラーメッセージ

エラーメッセージについて説明しています。

第3章 メンテナンスモード

メンテナンスモードの各メニューについて説明しています。

第4章 定期点検および保守

本機で推奨する定期点検情報、各部のクリーニング方法について説明しています。

第5章 主要部品の交換

機構部品、電源ユニット、および基板の交換について説明しています。

第6章 テープ走行系調整

第5章に記載した部品の交換後に行うテープ走行系の調整について説明しています。

第7章 主要部品交換後の電気調整

第5章に記載した部品の交換に伴う電気調整について説明しています。

第8章 電気調整要項

本機のメンテナンスに必要な電気調整について説明しています。

第9章 ビデオヘッド突出量の測定

ビデオヘッド突出量の測定方法について説明しています。

第10章 MPEG IMX フォーマット概説

MPEG IMX フォーマットについて説明しています。

Section 1 Spare Parts

分解図および機構部品リスト、電気部品リストを記載しています。

Section 2 Semiconductor Pin Assignments

本機で使用している半導体の型名一覧とその半導体標準図検索用ID番号を記載しています。

別売の“Semiconductor Pin Assignments” CD-ROM版と合わせてご覧ください。
また、本書作成時に、CD-ROM版に含まれていない半導体標準図がある場合は、本章に追加掲載しています。

Section 3 Circuit Description and Block Diagrams

回路概説とオーバーオール、各基板のブロック図を記載しています。

Section 4 Board Layouts

基板のマウント図を記載しています。

Manual Structure

Purpose of this manual

This manual is the maintenance manual volume 3 of the following models.

HD Digital Videocassette Recorder	HDW-2000/D2000/M2000/M2000P/S2000/ S2000P
HD Digital Videocassette Player	HDW-M2100/M2100P
Control Panel Unit	HKDW-101
SDTI Interface Board	HKDW-102
Digital Videocassette Recorder	DVW-2000/2000P/M2000/M2000P
Control Panel Unit	BKDW-101
Digital Videocassette Recorder	MSW-2000/A2000/A2000P/M2000/ M2000P/M2000E/M2000EP
Digital Videocassette Player	MSW-M2100/M2100P/M2100E/M2100EP
Control Panel Unit	BKMW-101
HD Upconverter Board	BKMW-104
Network Interface Board	BKMW-E2000/E3000

This maintenance manual (Volume 1, 2, and 3) is intended for use by trained system and service engineers, and provides the information of maintenance and detailed service (parts replacement, guideline for adjustment, schematic diagrams, board layouts, detailed parts list).

This manual (volume 3) describes schematic diagrams.

Related manuals

Besides this "Maintenance manual", the following manuals are available.

- **Operation Manual (Supplied with this unit or options.)**

This manual is necessary for application and operation (and installation) of this unit.

- **Installation Manual (Supplied with this unit or options.)**

This manual describes the information on installing this unit.

- **Protocol Manual of Remote (9-pin) Connector (available on request)**

This manual explains the protocol for controlling the VTR via the RS-422A (9-pin serial remote). If this manual is required, please contact your local Sony Sales Office/Service Center.

- **Interface Manual of Parallel I/O (50-pin) Connector (available on request)**

This manual explains the protocol for controlling the VTR via the parallel (50-pin). If this manual is required, please contact your local Sony Sales Office/Service Center.

- **“Semiconductor Pin Assignments” CD-ROM (Available on request)**

This “Semiconductor Pin Assignments” CD-ROM allows you to search for semiconductors used in this unit.

Semiconductors that cannot be searched for on this CD-ROM are listed in the maintenance manual volume 2 for this unit. The maintenance manual volume 2 contains a complete list of all semiconductors and their ID Nos., and thus should be used together with the CD-ROM.

Part number: 9-968-546-XX

Contents

This maintenance manual (volume 1, volume 2, and volume 3) is organized by following sections.

Maintenance manual volume 3 (9-967-903-1X)

Section 1 Schematic Diagrams and Frame Wiring

Describes the frame wiring and the schematic diagrams for the unit.

Maintenance manual volume 1 (9-967-901-1X)

Section 1 Service Overview

Explains fundamental area of the information that is required to service, (removal of cabinet and cassette compartment, the functions of printed circuit board, the locations of main part, fixture and measuring equipment information, notes, etc.), the measures against trouble and ISR (Interactive Status Reporting).

Section 2 Error Message

Explains the error messages.

Section 3 Maintenance Mode

Explains each menu of the maintenance mode.

Section 4 Periodic Maintenance and Inspection

Explains the recommended periodic maintenance and the cleaning procedure.

Section 5 Replacement of Main Parts

Explains the replacement of mechanical parts, power supply unit, and circuit boards.

Section 6 Tape Path Alignment

Explains the tape path alignment after replacement of parts that are described in Section 5.

Section 7 Electrical Alignment after Main Parts Replacement

Explains the electrical alignment associated with replacement of parts that are described in Section 5.

Section 8 Electrical Alignment

Explains the electrical alignment for the maintenance of this unit.

Section 9 Video Head Projection Measurement

Explains the procedure for video head projection measurement.

Section 10 MPEG IMX Format Outline

Explains the MPEG IMX Format.

**Maintenance manual
volume 2
(9-967-902-1X)**

Section 1 Spare Parts

Describes the exploded views, the mechanical parts list, and the electrical parts list.

Section 2 Semiconductor Pin Assignments

This section contains information on semiconductors used for unit.

It includes a complete list of the semiconductors and their ID Nos. for retrieving information on "Semiconductor Pin Assignments" CD-ROM, which is available separately.

Please refer to this section together with the "Semiconductor Pin Assignments" CD-ROM.

Information on the semiconductors not contained in the CD-ROM at the time of issue of this manual, if any, is given in this section as well.

Section 3 Circuit Description and Block Diagrams

Describes the circuit description and the block diagrams of overall and each board.

Section 4 Board Layouts

Describes the board layouts for the unit.

Section 1
Schematic Diagrams and Frame Wiring

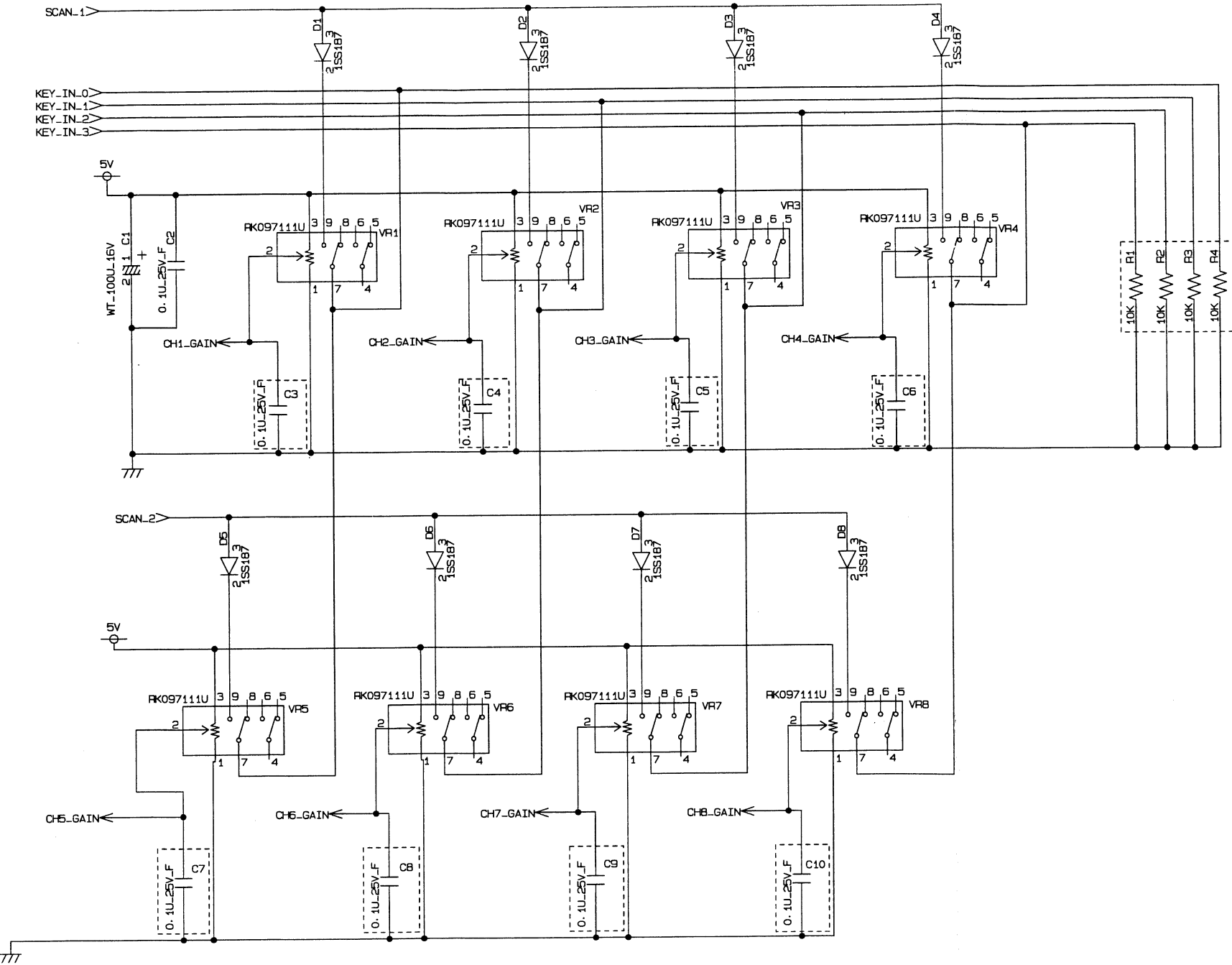
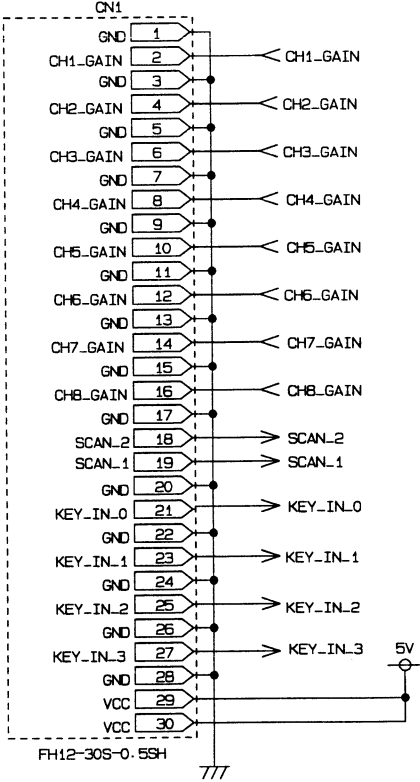
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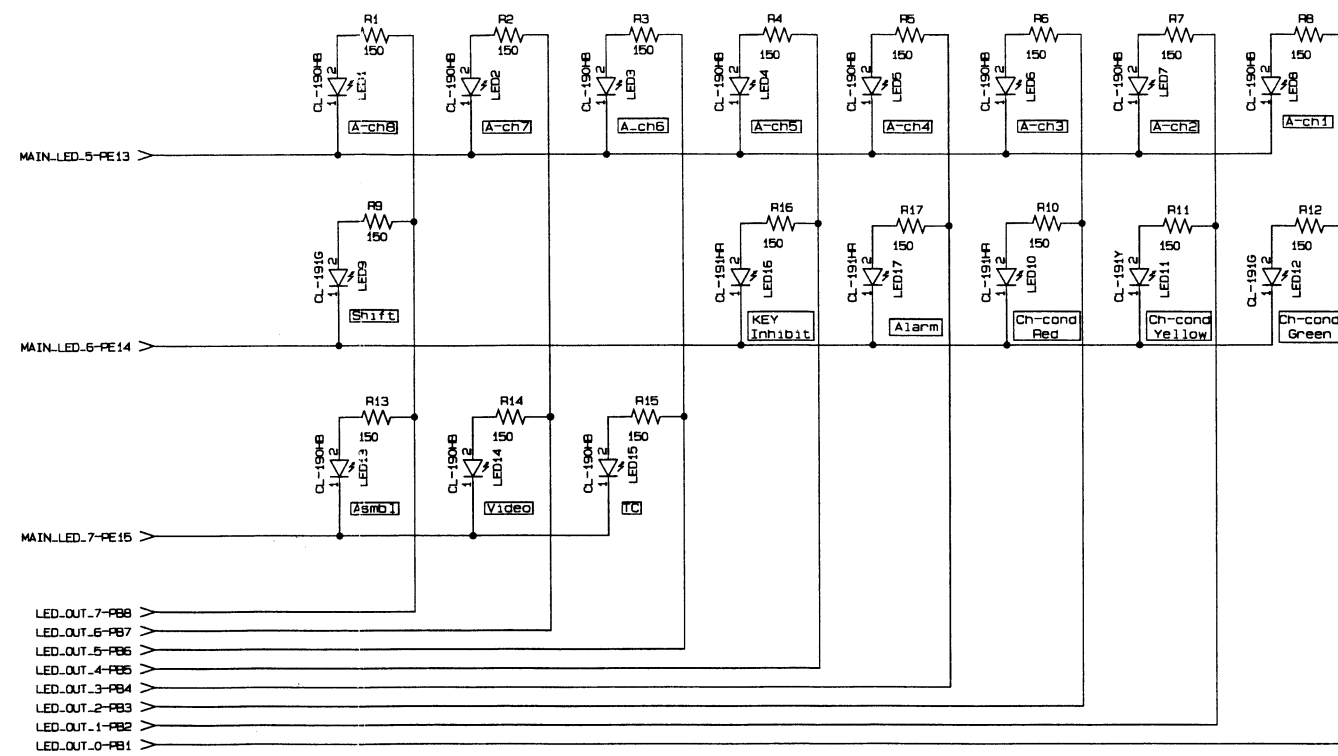
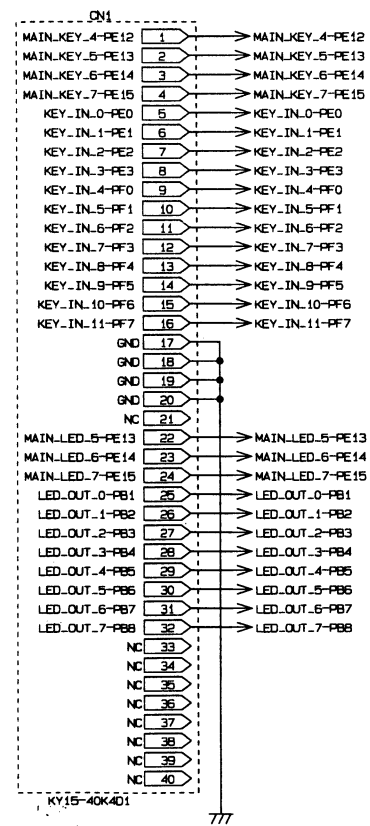
* : この基板は、本章に掲載していません。
* : The schematic diagram of this board is not described in this manual.

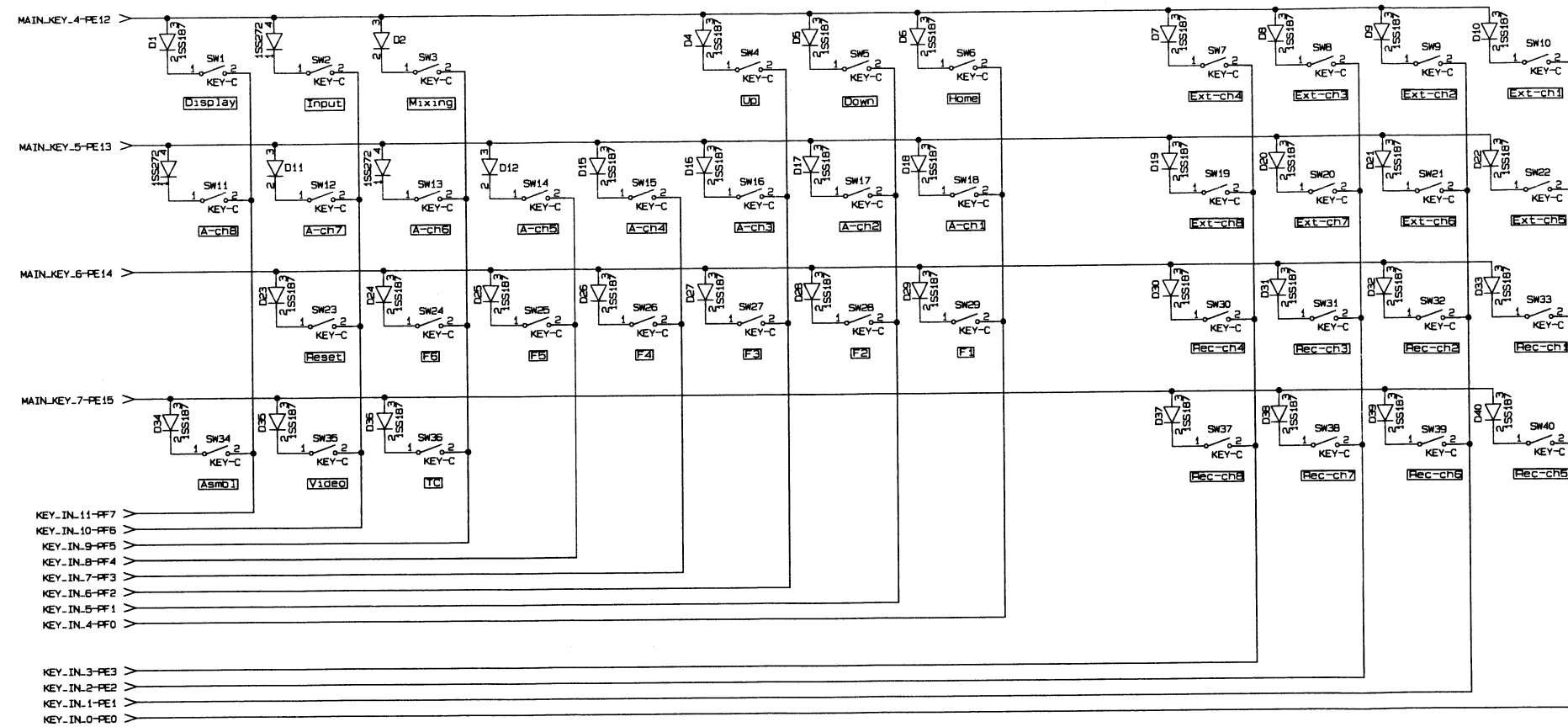
System configuration	Board name	Circuit function
Digital process	DPR-155	Decoder (digital PB) processor
	DPR-229	(ECC outer decoder, Bit reduction decoder, Audio jog DSP)
	DPR-194	ECC outer decoder
	DPR-195	
	DPR-208	
	EPR-1	Digital BETACAM/MPEG IMX encoder (digital REC) processor (Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input, MPEG SDTI-CP output)
	DIF-134	HDCAM SDTI interface
	HIF-1	HD video signal processor (Video slow process, Video process down converter, Video process up converter)
	HPR-1	HD video signal processor (Input filter, Bit rate reduction encoder, ECC encoder, Bit rate reduction decoder, Concealment, Output filter)
	IF-886	Video stream, Audio signal interface
	RX-80	HD SDI input
	SDI-52	SD SDI interface
	SDI-63	HD SDI interface
	TX-96	HD SDI output
	VN-13	Network interface
Video process	VPR-64	Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)
	VPR-91	
	DM-123	Analog BETACAM video PB (RF demodulator, TBC)
	DSP-109	Proxy audio/video signal processor
Audio process	APR-52	Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
	AE-31	Analog BETACAM audio (LAU) PB EQ
	AE-31H	
	AU-272	Analog BETACAM audio (LAU and AFM) PB circuit
	CUE-13	Cue REC/PB
	RC-89H	Audio rate converter
	EQ-84	RF equalizer, ECC inner decoder
System/servo control	SS-89	System control, Servo control
	DR-414	Solenoid drivers (Pinch, Brakes, Cleaning), Motor drivers (Drum, Capstan, Reels, Threading, Reel shift, Cassette up/down), REC inhibit sensors, Reel position sensors
	DR-508	
	DT-47	DT driver
Mechanical deck driver/sensor	TC-104	TC REC/PB circuit, TC/full erase oscillator
	CCM-15	Threading motor
	DU-107	Demagnetization head
	HN-268	Pinch and Cleaning sloenoids connection, Tape end sensor connection
	PTC-99	Cassette's holes sensor
	PTC-102	Threading FG
	SE-606/606A	Loop antenna board
	TR-119	S tension sensor
	TR-120	T tension sensor, Threading-end and Unthreading-end sensors
Cassette compartment	LP-81	Lamp of cassette compartment
	PC-70	Cassette-in sensors, Cassette size sensor
	CL-29	Cassette up/down motor, Cassette down sensors

System configuration	Board name	Circuit function
Front panel	DIO-65	Connection board, Memory label reader/writer
	FP-133	Memory stick slot and interface, NV-RAMs, Switch panel function (Switches, Control panel connection)
	FP-134	Memory card slot
	FED Driver (F248B054)	FED Driver
	HP-101	Upper control panel function (PHONES)
	KY-464 (MBJ834)	Lower control panel function (Audio signal selection switches, Menu control switches)
	KY-569 (MBJ907B)	
	KY-465 (AC013AA)	Lower control panel function (Filed emission display, Audio setting display, Tape transport switches, Editing control switches, CONTROL PANEL connector)
	KY-570 (AC027A)	
	LED-357	Upper control panel function (Format indicators)
	PTC-101	Search dial
	SWC-40	Upper control panel function (REMOTE, EJECT)
	SW-1106	
	VR-262 (AC014AA)	Lower control panel function (Audio PB level VRs)
	VR-300 (1P50A973)	
Connector panel	VR-262 (AC014AA)	Lower control panel function (Audio REC level VRs)
	VR-300 (1P50A973)	
	CP-350	Connector board (Analog video)
	CP-351	Connector board (Analog audio, Monitor, Time code)
	CP-371	Connector board (Digital audio (AES/EBU), remote control connectors)
Other	IF-885	Connector board (Ethernet)
	MB-884	Motherboard

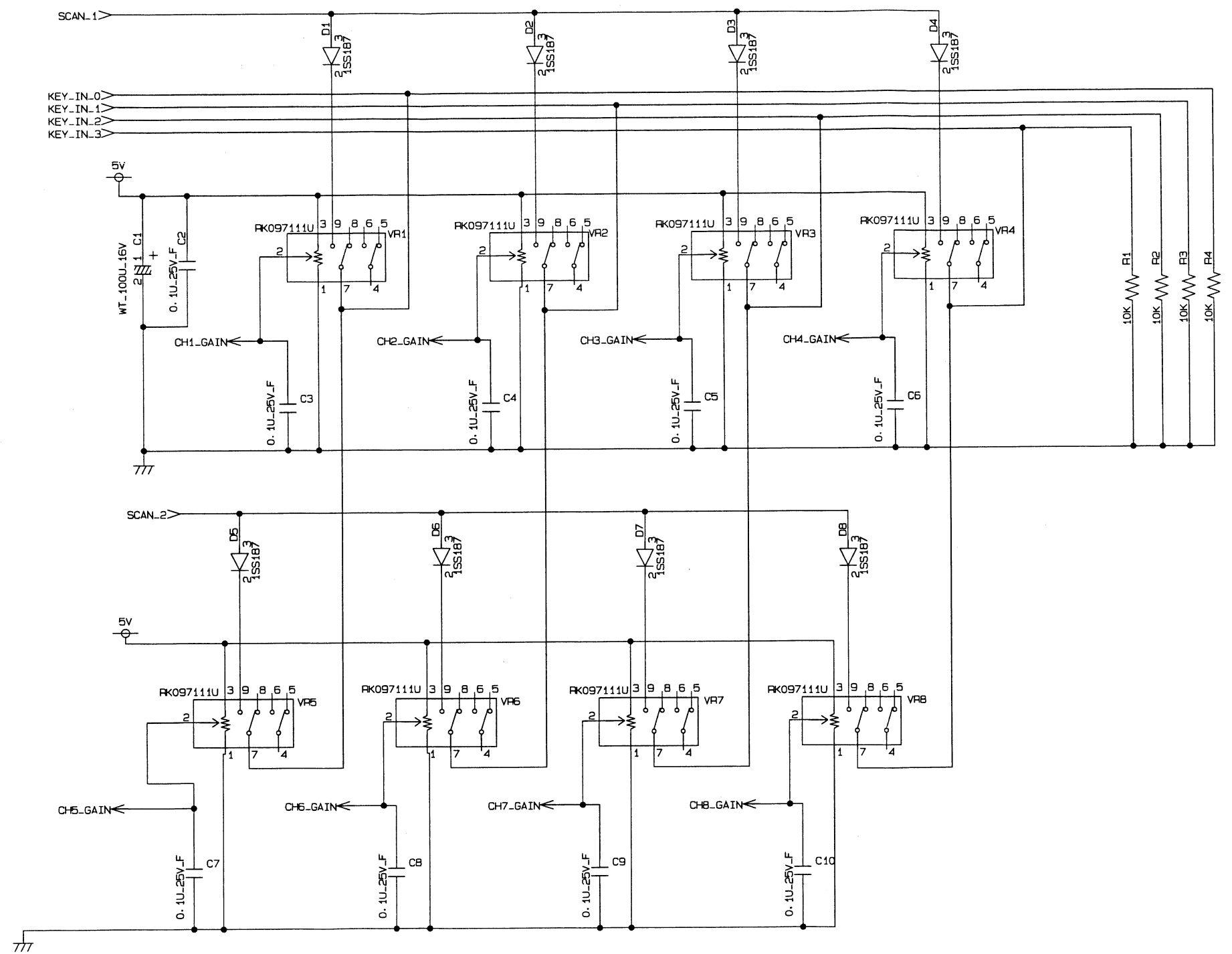
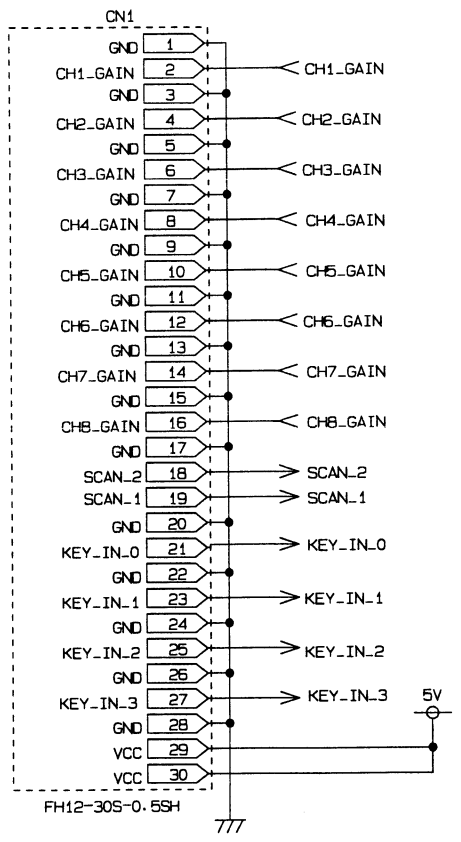


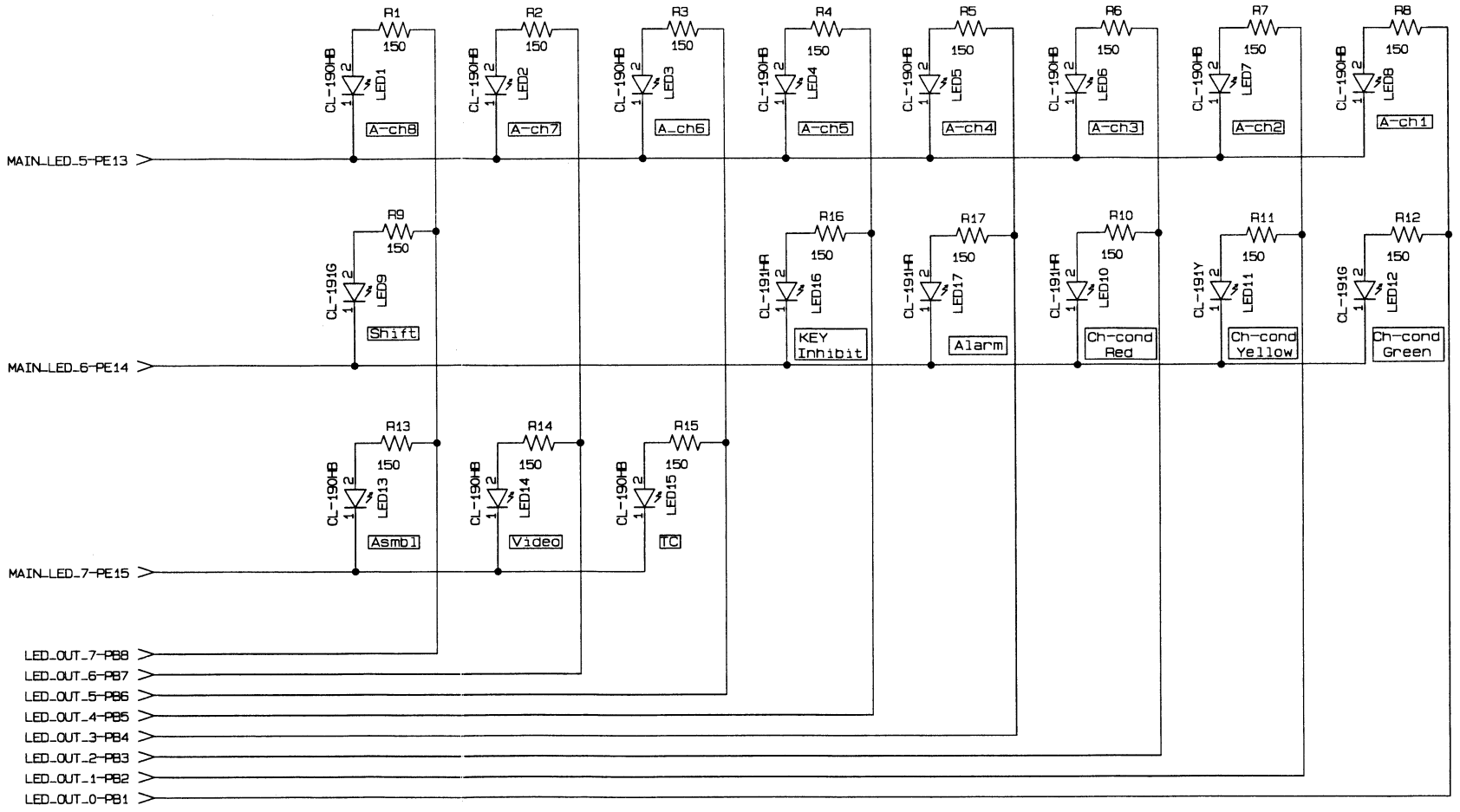
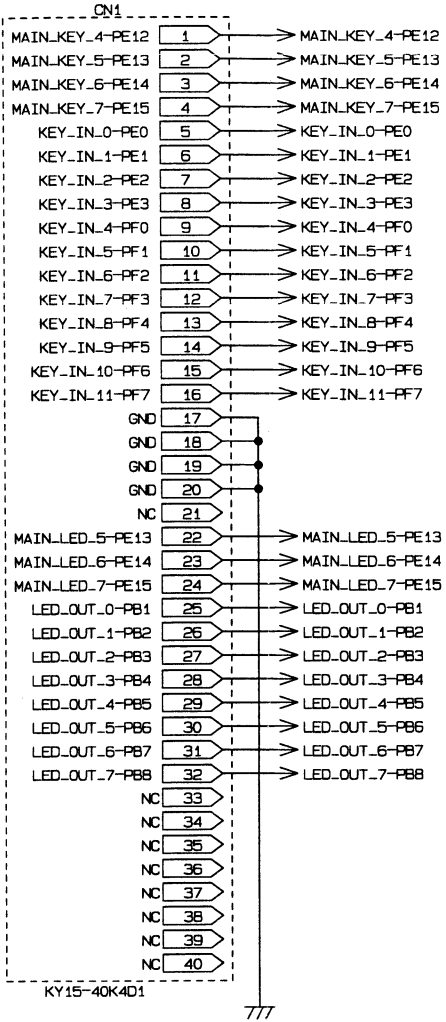
Lower control panel function (Audio PB/REC level VRs)
1P50A973 (VR-300)



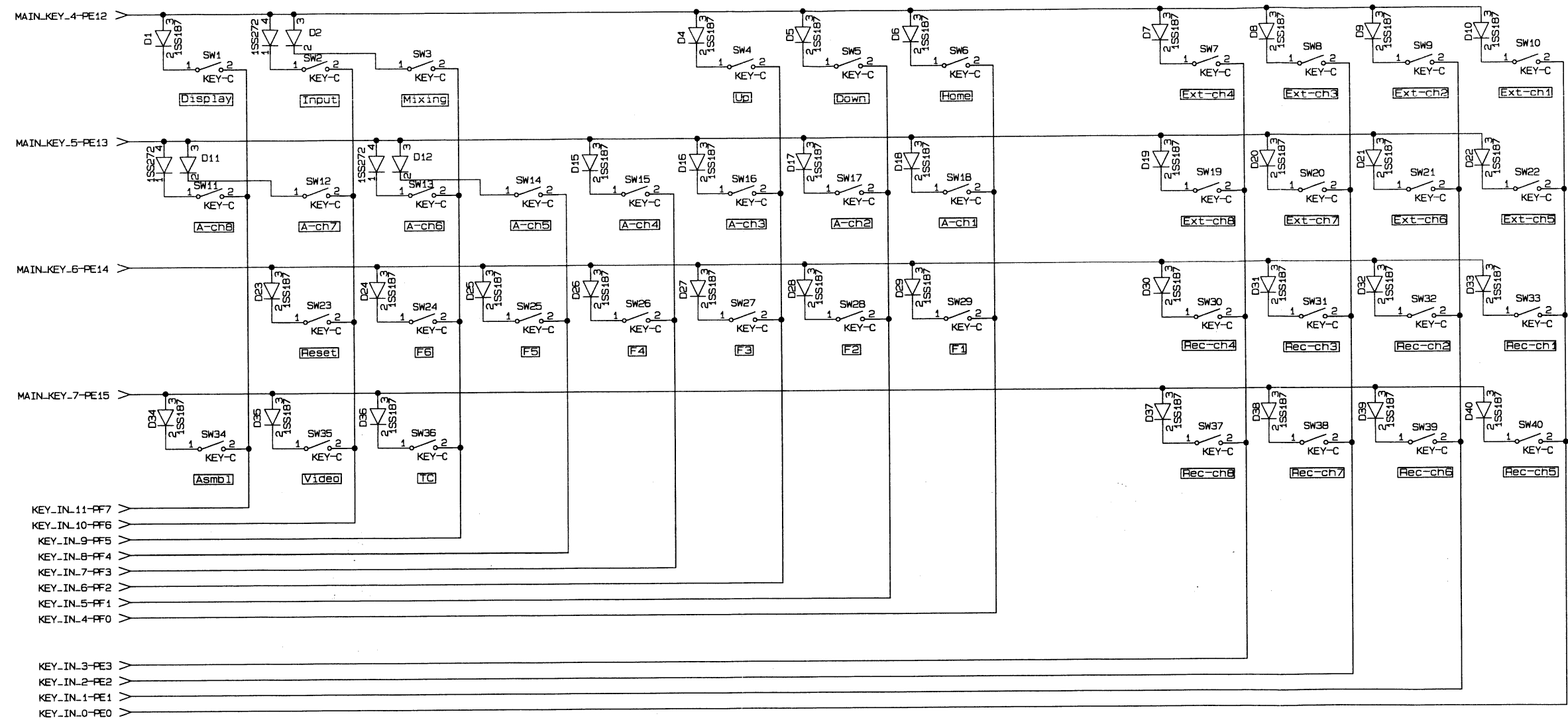






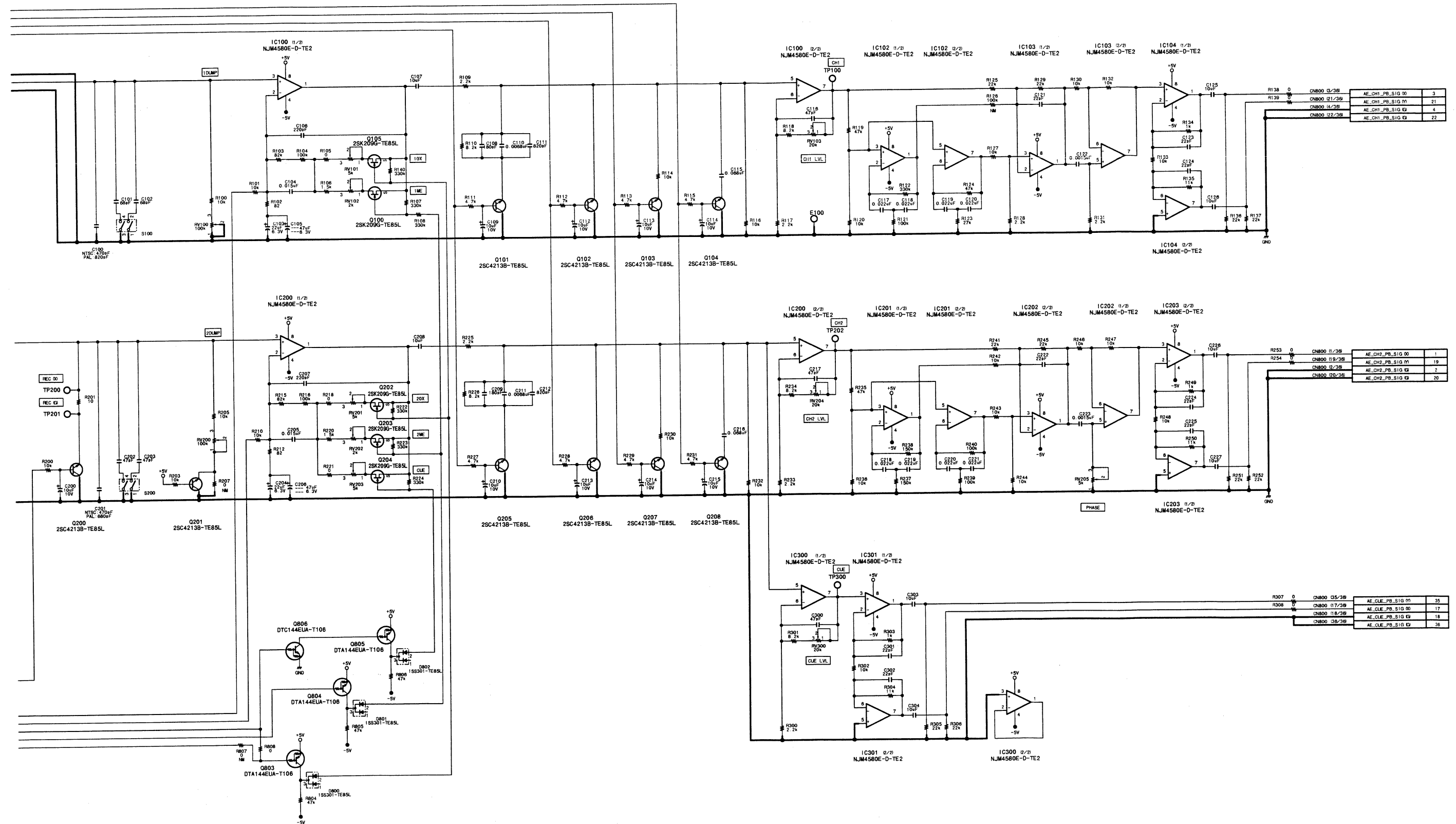


Lower control panel function (Field emission display, Audio setting display, Tape transport switches, Editing control switches, CONTROL PANEL connector)
AC027A (KY-570) (1/2)



Lower control panel function (Field emission display,
Audio setting display, Tape transport switches,
Editing control switches, CONTROL PANEL connector)
AC027A (KY-570) (2/2)





Analog BETACAM audio (LAU) PB EQ

AE-31 (1/2)

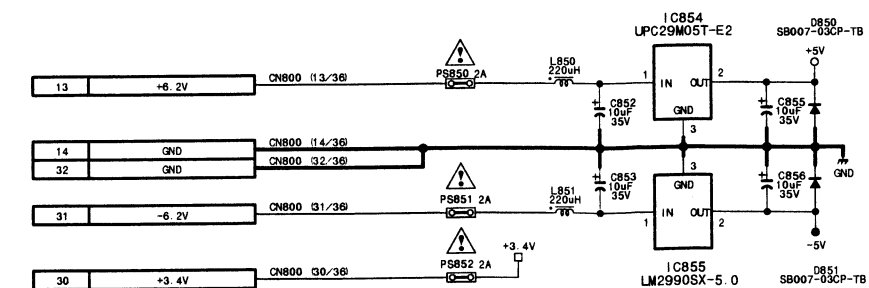
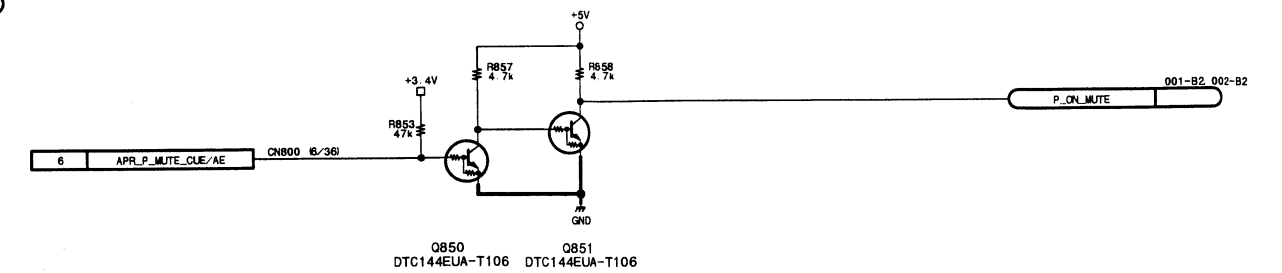
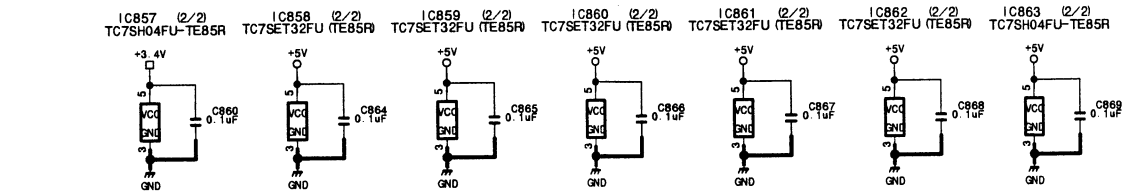
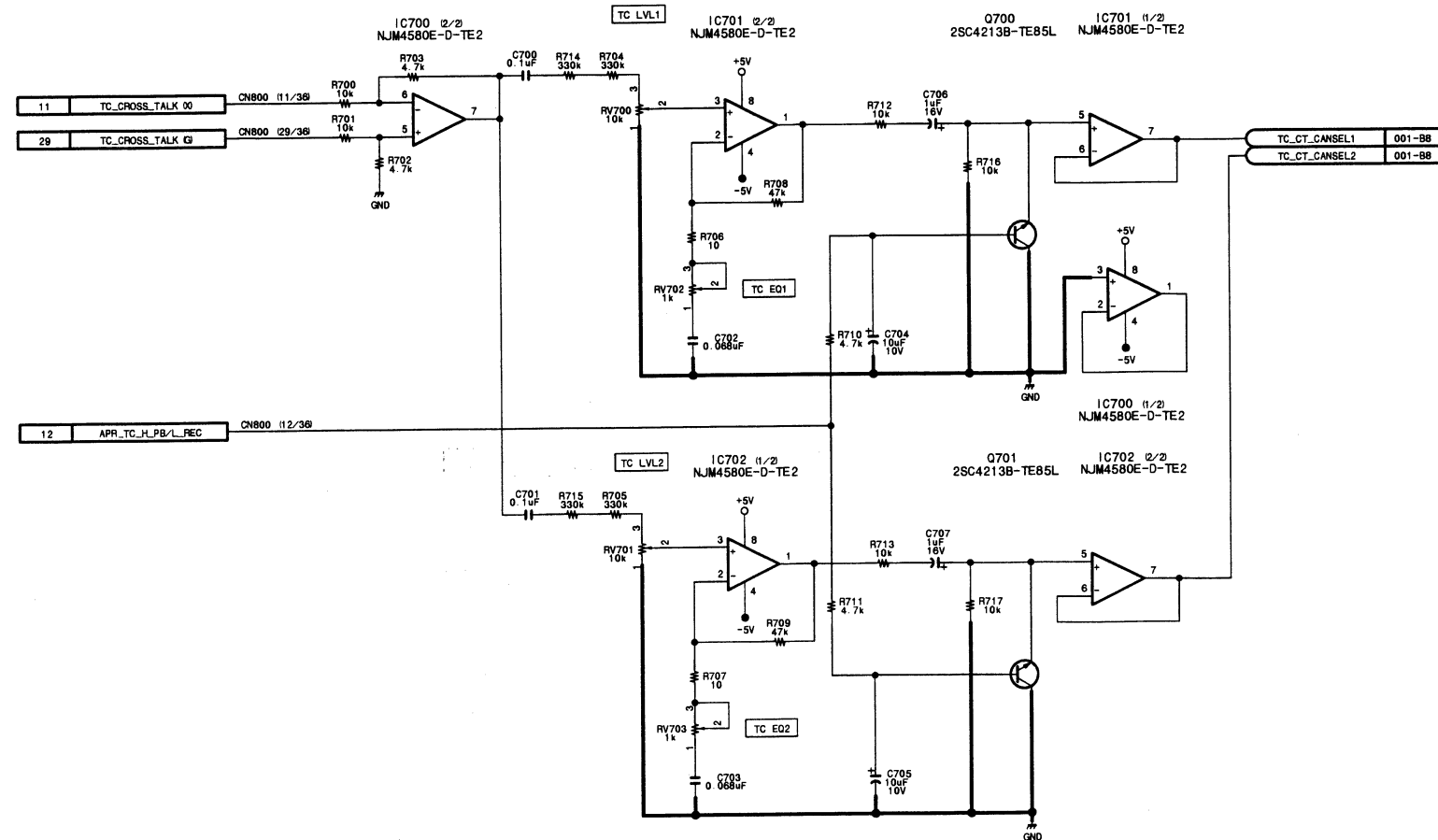
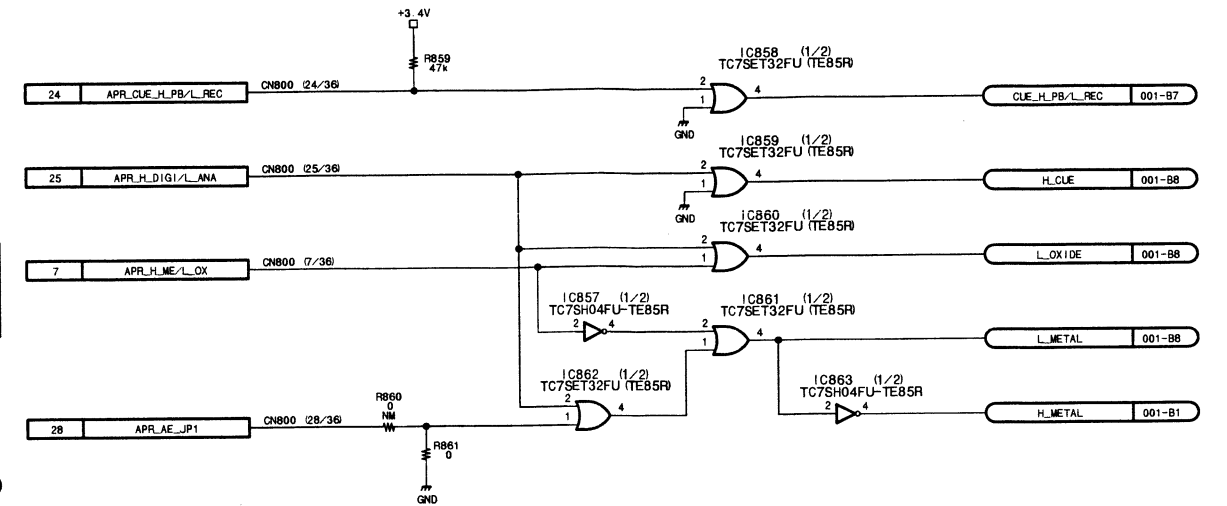
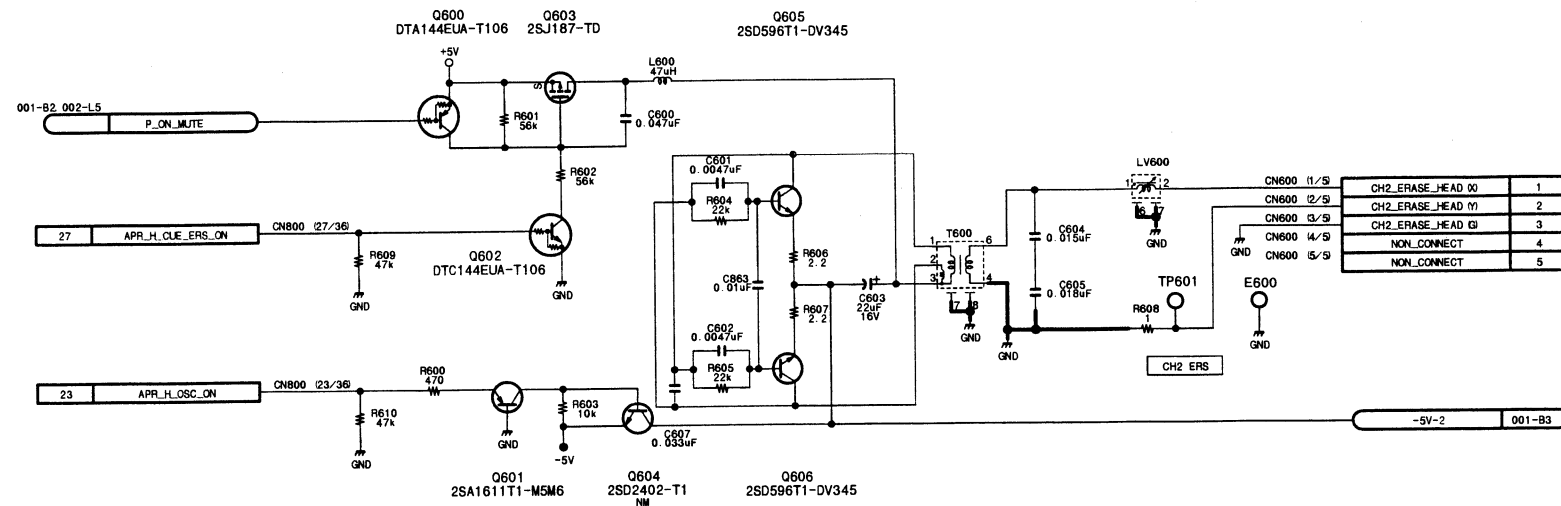
BOARD NO. 1-677-287-11

AE-31: LOT NO. 261-334 For MSW-A2000

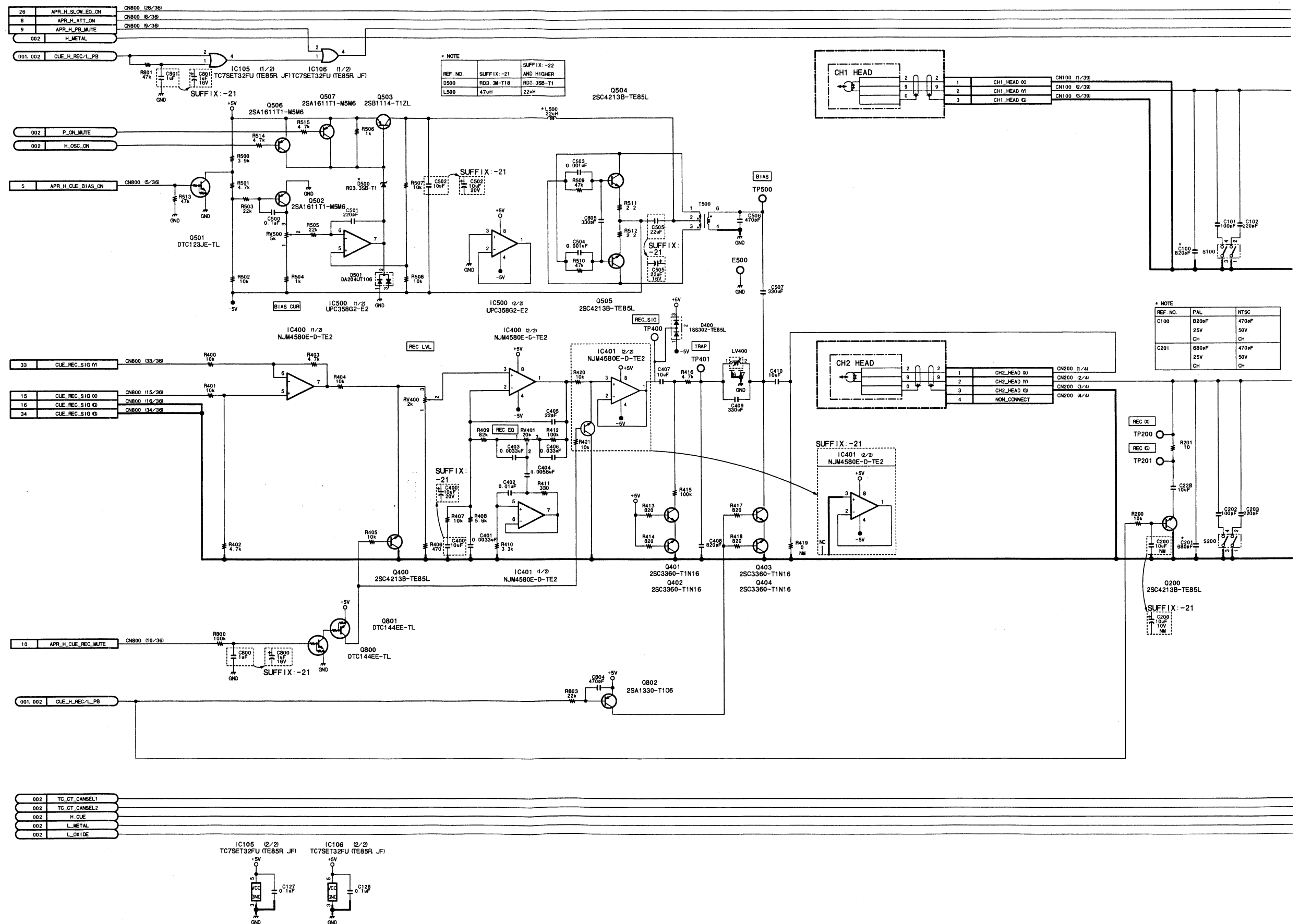
AE-31P: LOT NO. 261-334 For MSW-A2000P

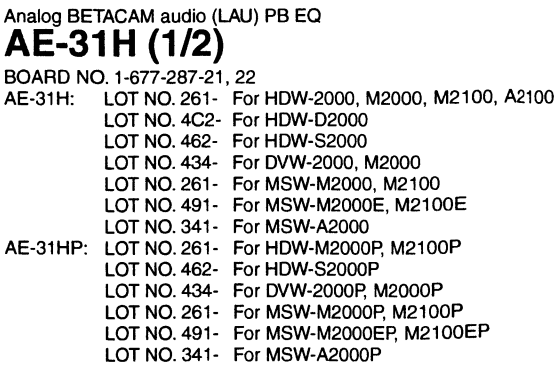
MSW-A2000_AE-31_008_1



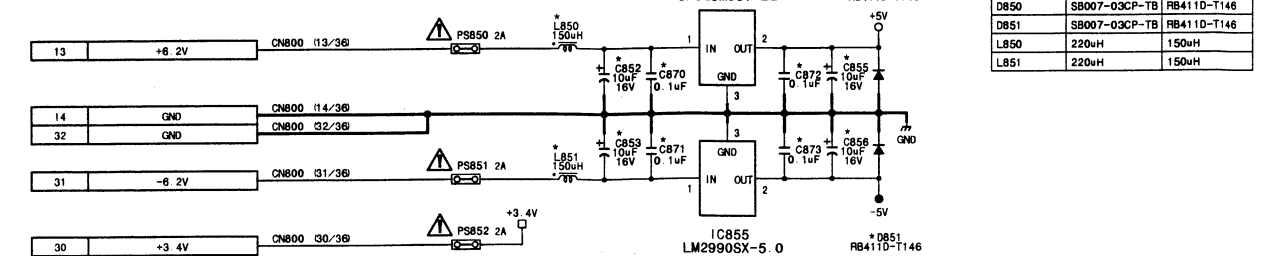
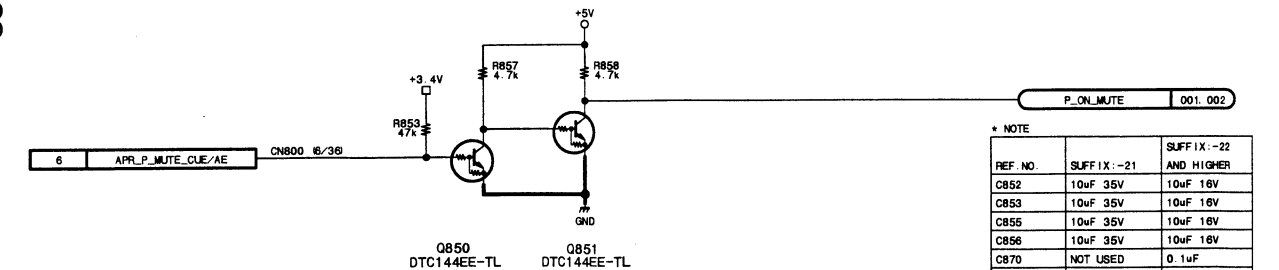
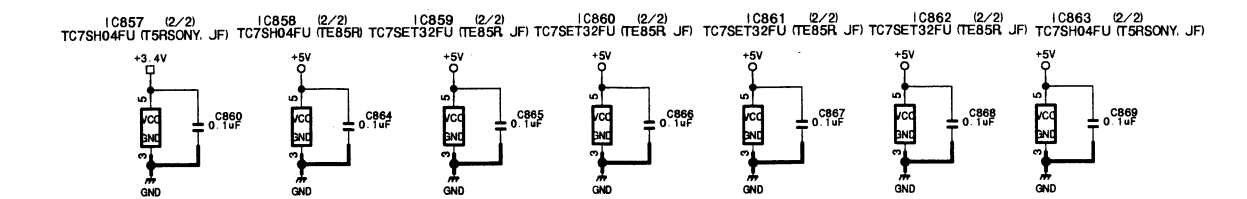
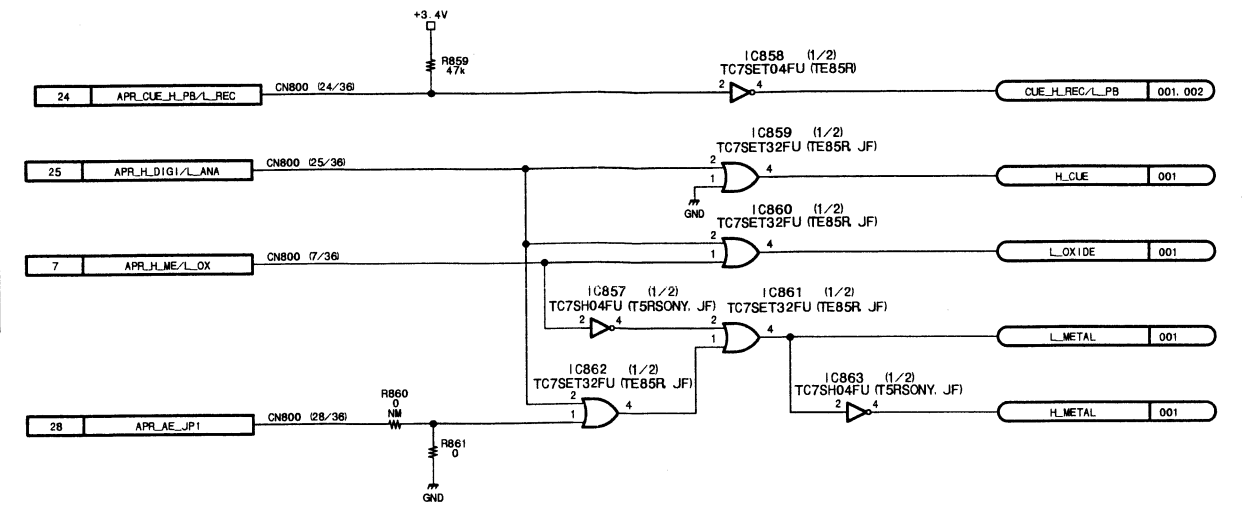
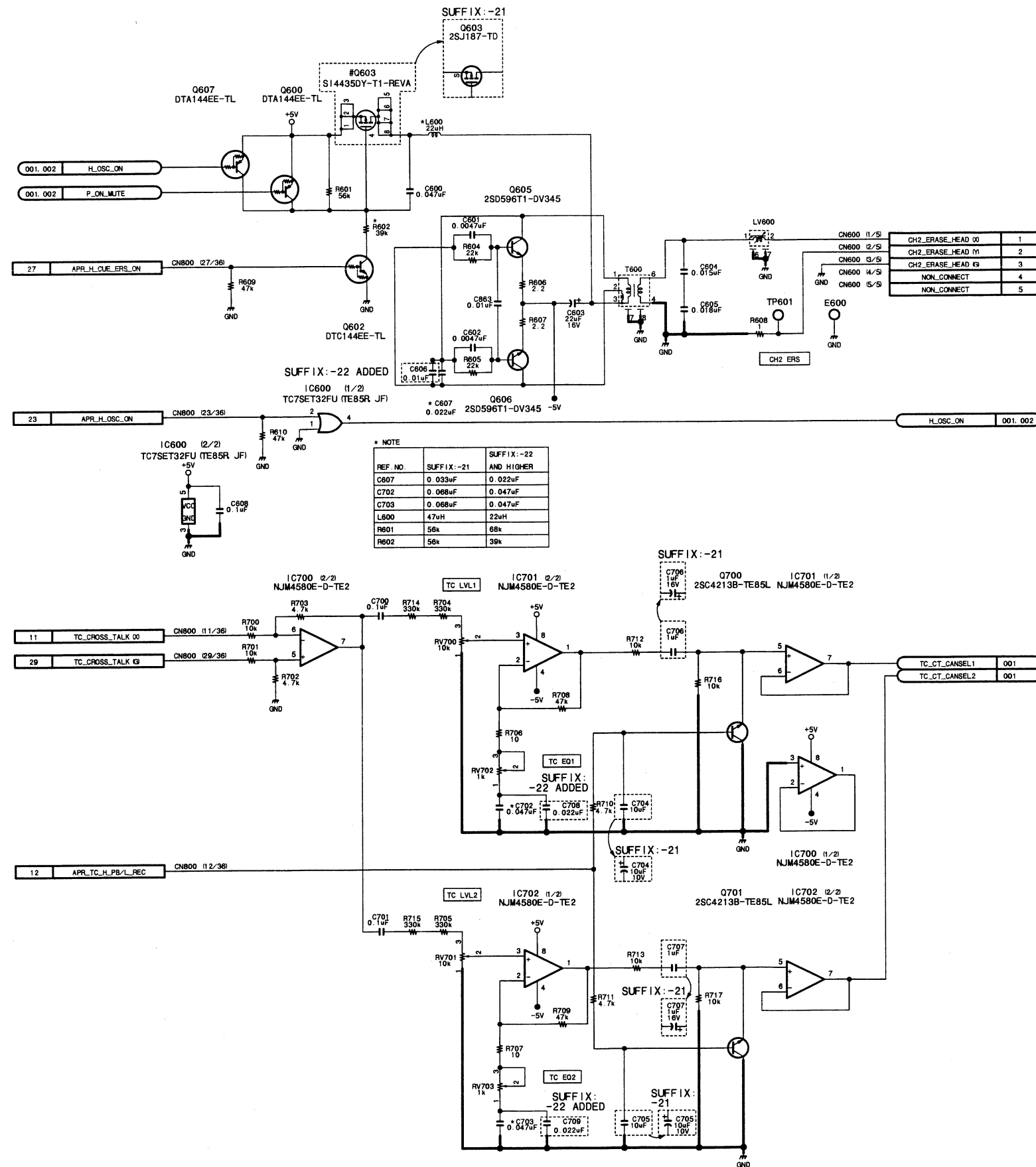


Analog BETACAM audio (LAU) PB EQ
AE-31 (2/2)
 BOARD NO. 1-677-287-11
 AE-31: LOT NO. 261-334 For MSW-A2000
 AE-31P: LOT NO. 261-334 For MSW-A2000P
 MSW-A2000_AE-31_008_2







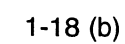


Analog BETACAM audio (LAU) PB EQ
AE-31H (2/2)

BOARD NO. 1-677-287-22
AE-31H: LOT NO. 261- For HDW-2000, M2000, M2100, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000
LOT NO. 434- For DVW-2000, M2000
LOT NO. 261- For MSW-M2000, M2100
LOT NO. 491- For MSW-M2000E, M2100E
LOT NO. 341- For MSW-A2000
AE-31HP: LOT NO. 261- For HDW-M2000P, M2100P
LOT NO. 462- For HDW-S2000P
LOT NO. 434- For DVW-2000P, M2000P
LOT NO. 261- For MSW-M2000P, M2100P
LOT NO. 491- For MSW-M2000EP, M2100EP
LOT NO. 341- For MSW-A2000P

BCX-233_AE-31_006_2

APR-52 (1/12)
SUFFIX: -16



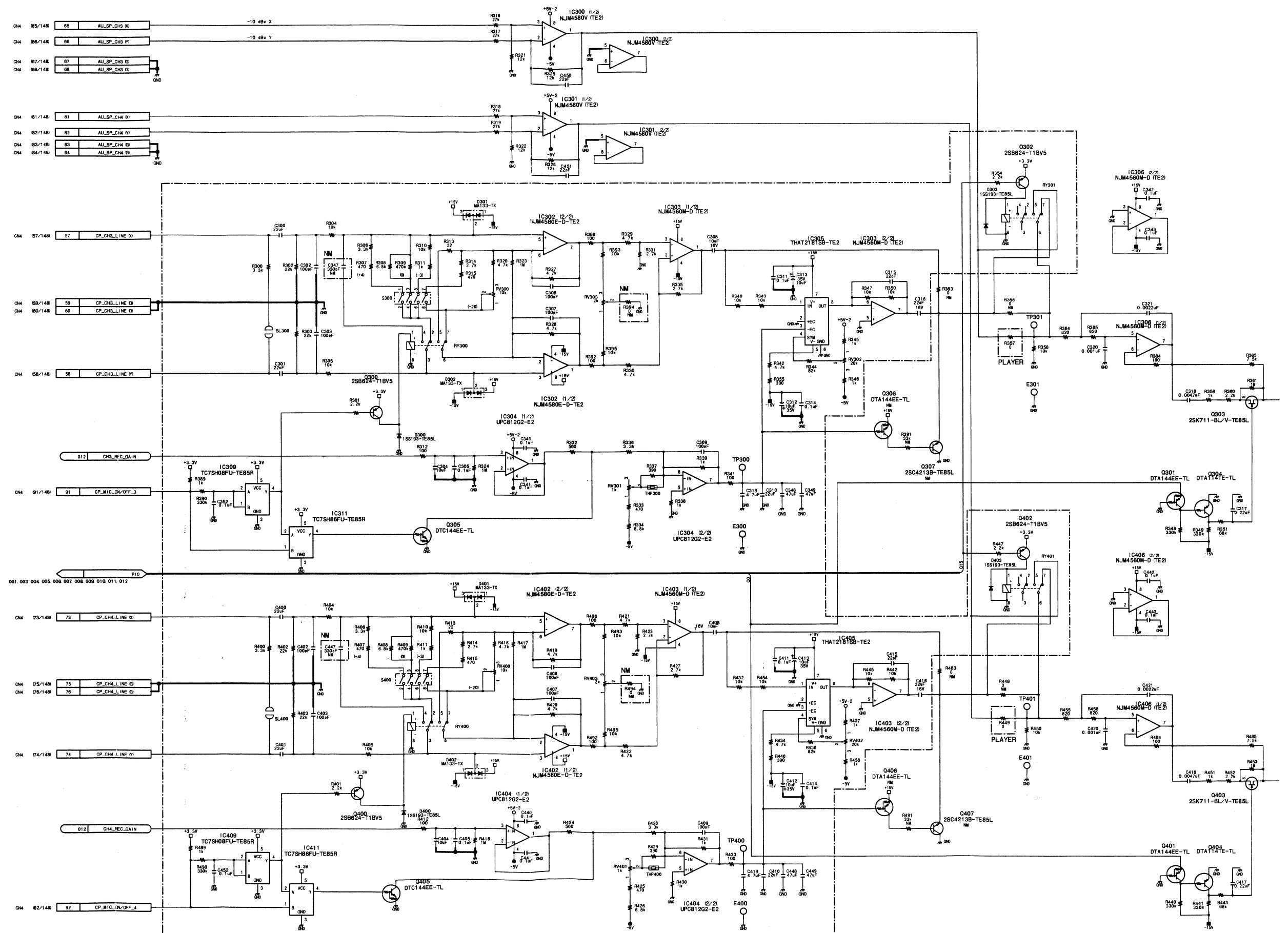
HDW series, DVW series, MSW series

1

APR-52 (1/12)
SUFFIX: -16



APR-52 (2/12)
SUFFIX: -16



1-20 (b)

1-20 (b)

HDW series, DVW series, MSW series

A

B

C

D

E

F

C

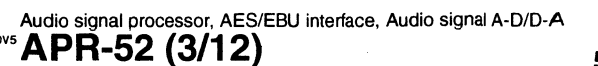
H

APR-52 (2/12)
SUFFIX: -16



APR-52 (3/12)
SUFFIX: -16

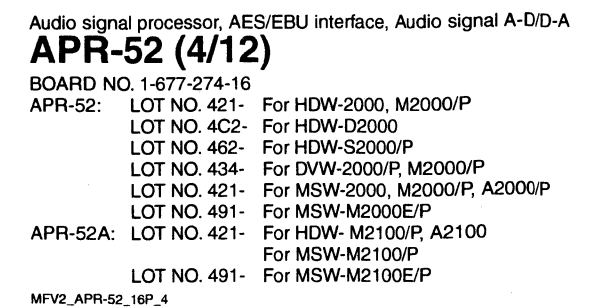
APR-52 (3/12)
SUFFIX: -16



BOARD NO. 1-677-274-16
APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
LOT NO. 491- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV2_APR-52_16P_3

APR-52 (4/12)
SUFFIX: -16

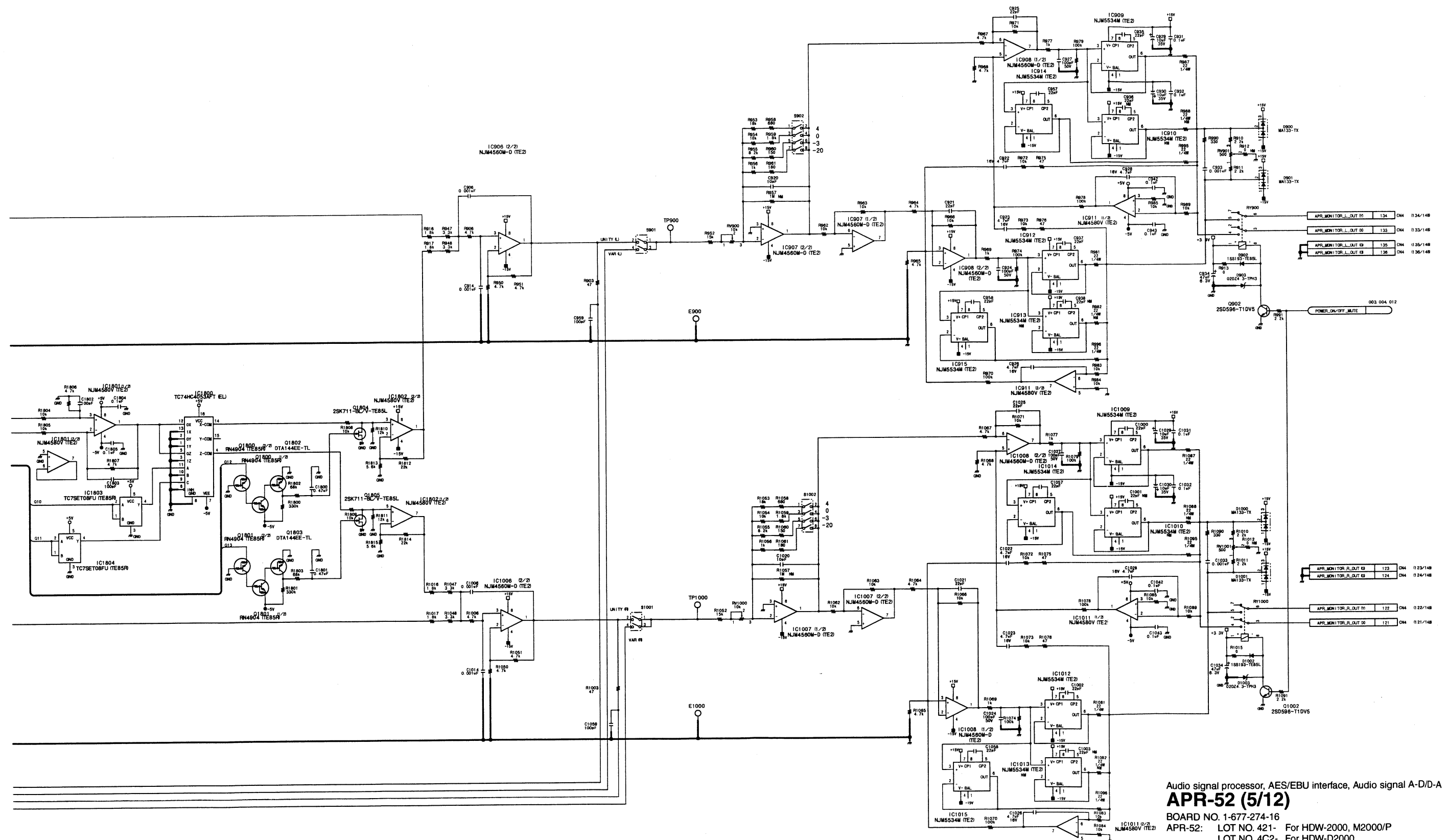


1-25 (b)

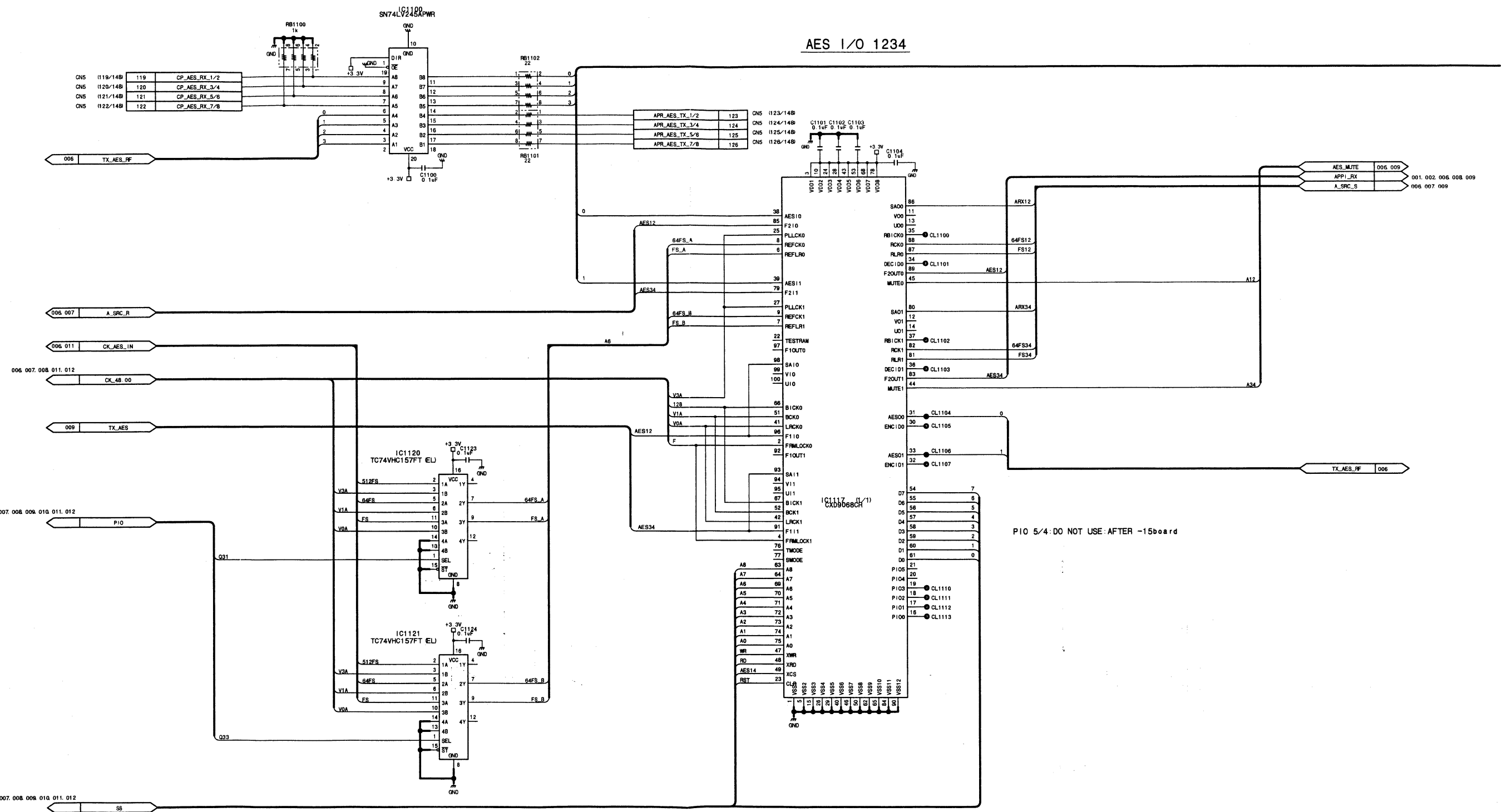
F

APR-52 (5/12)
SUFFIX: -16

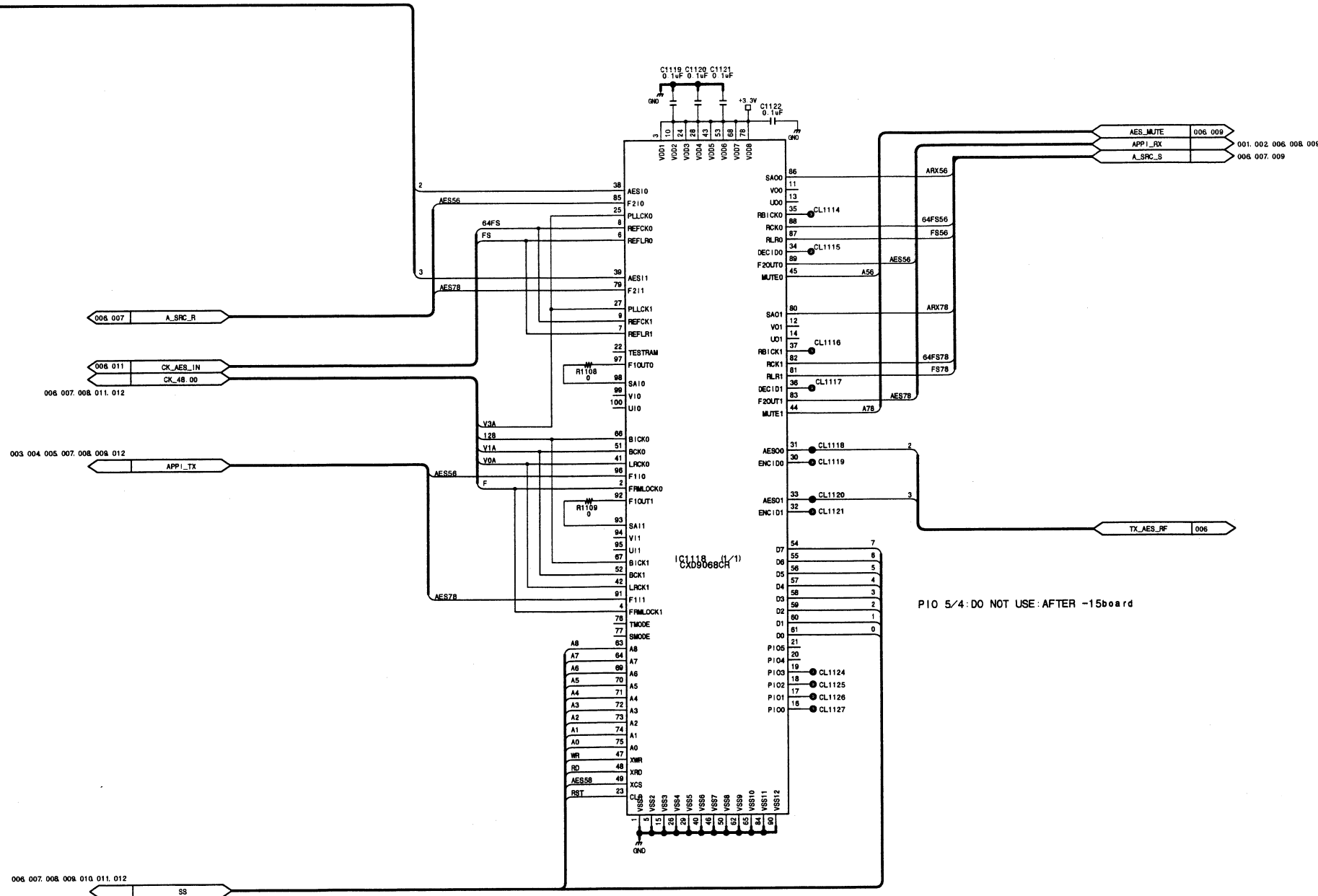
APR-52 (5/12)
SUFFIX: -16



Audio signal processor, AES/EBU interface, Audio signal A/D-D-A
APR-52 (5/12)
BOARD NO. 1-677-274-16
APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P
MFV2_APR-52_16P_5



AES I/O 5678



P10 5/4:00 NOT USE: AFTER -15board

Audio signal processor, AES/EBU interface, Audio signal A-D/D-A

APR-52 (6/12)

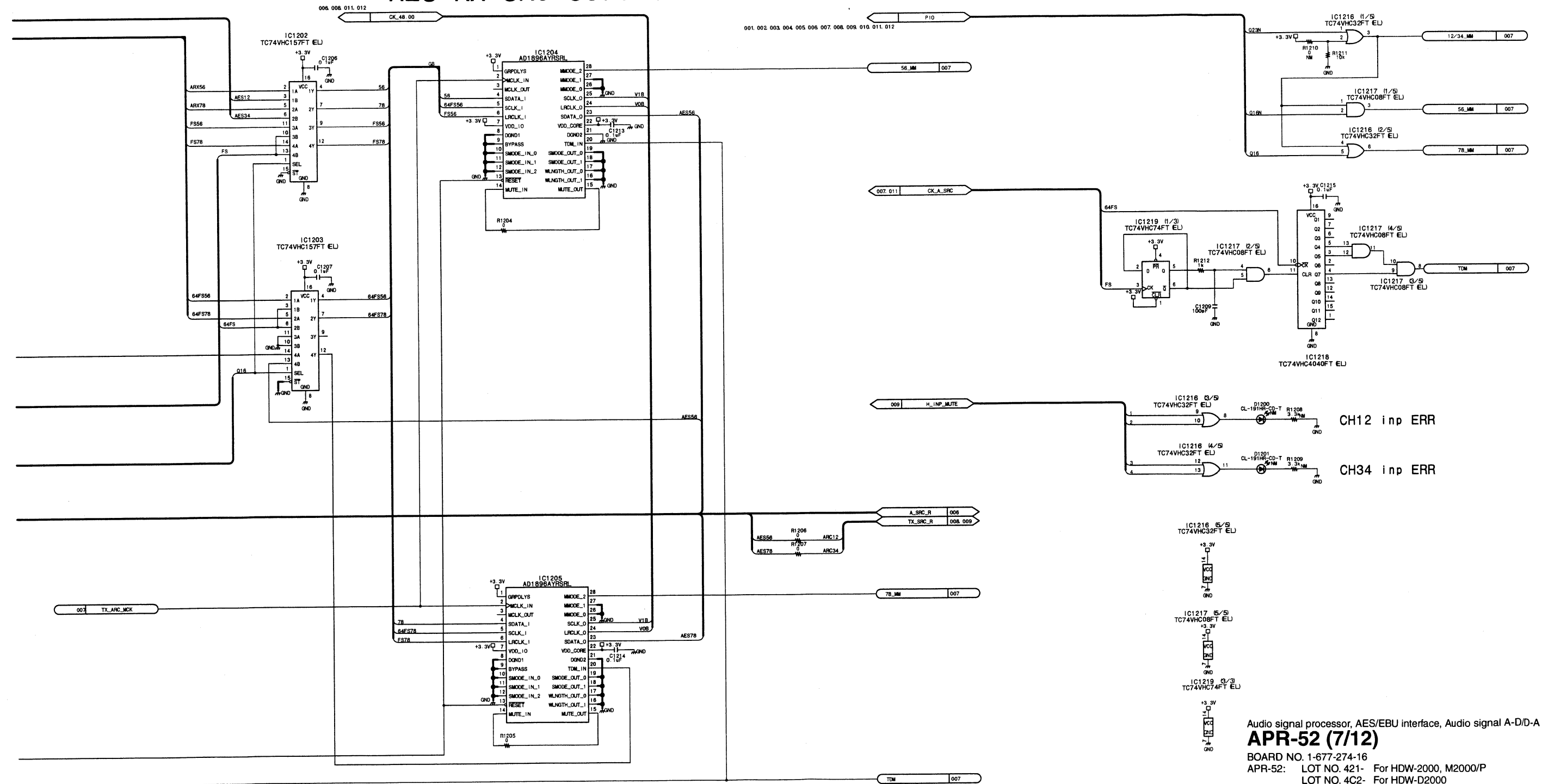
BOARD NO. 1-677-274-16

- APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV2_APR-52_16P_6

APR-52 (7/12)
SUFFIX: -16

AES RX SRC 5678/TX1234 (HD)



Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (7/12)

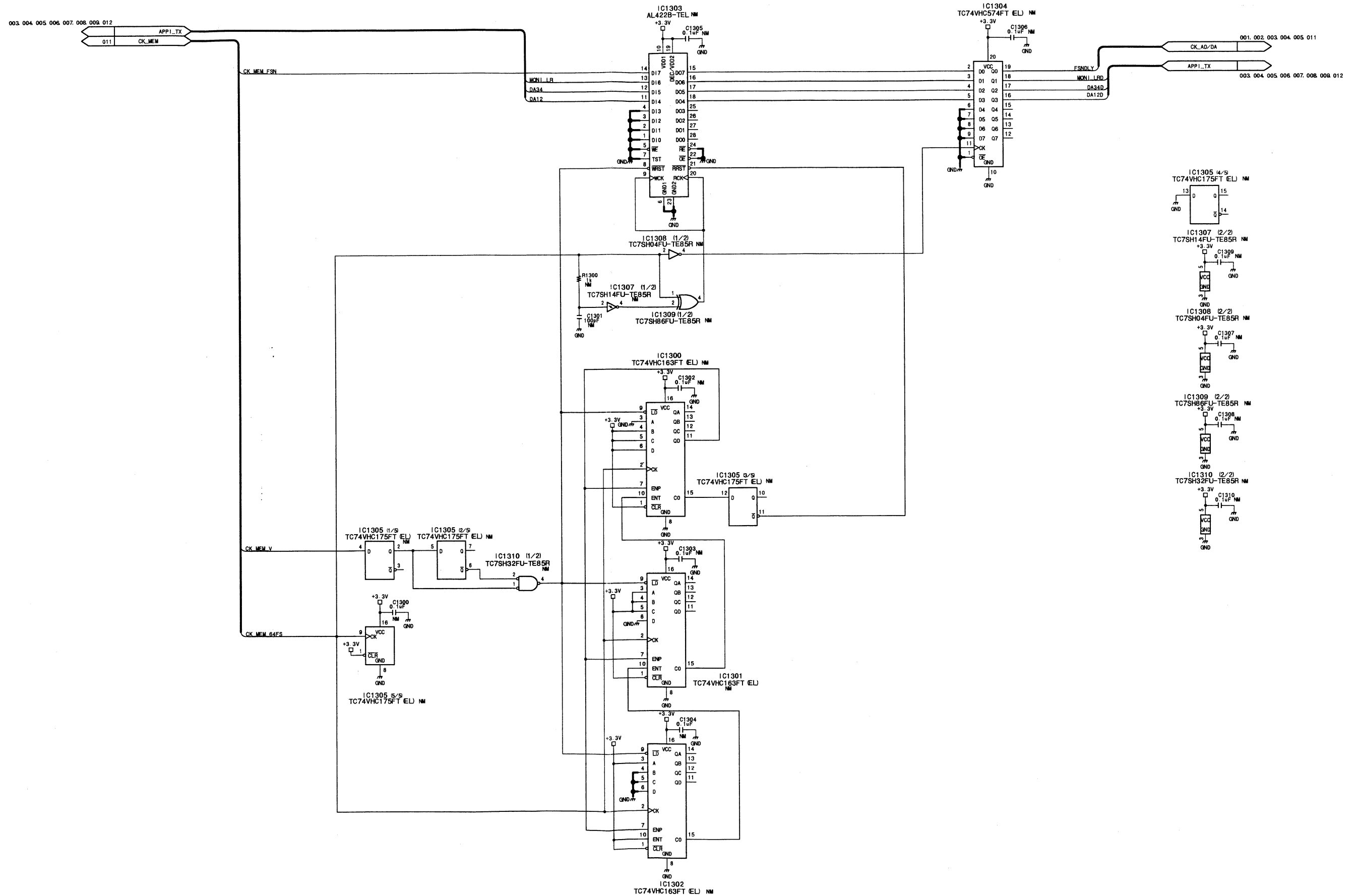
BOARD NO. 1-677-274-16

APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV2_APR-52_16P_7

APR-52 (8/12)
SUFFIX: -16

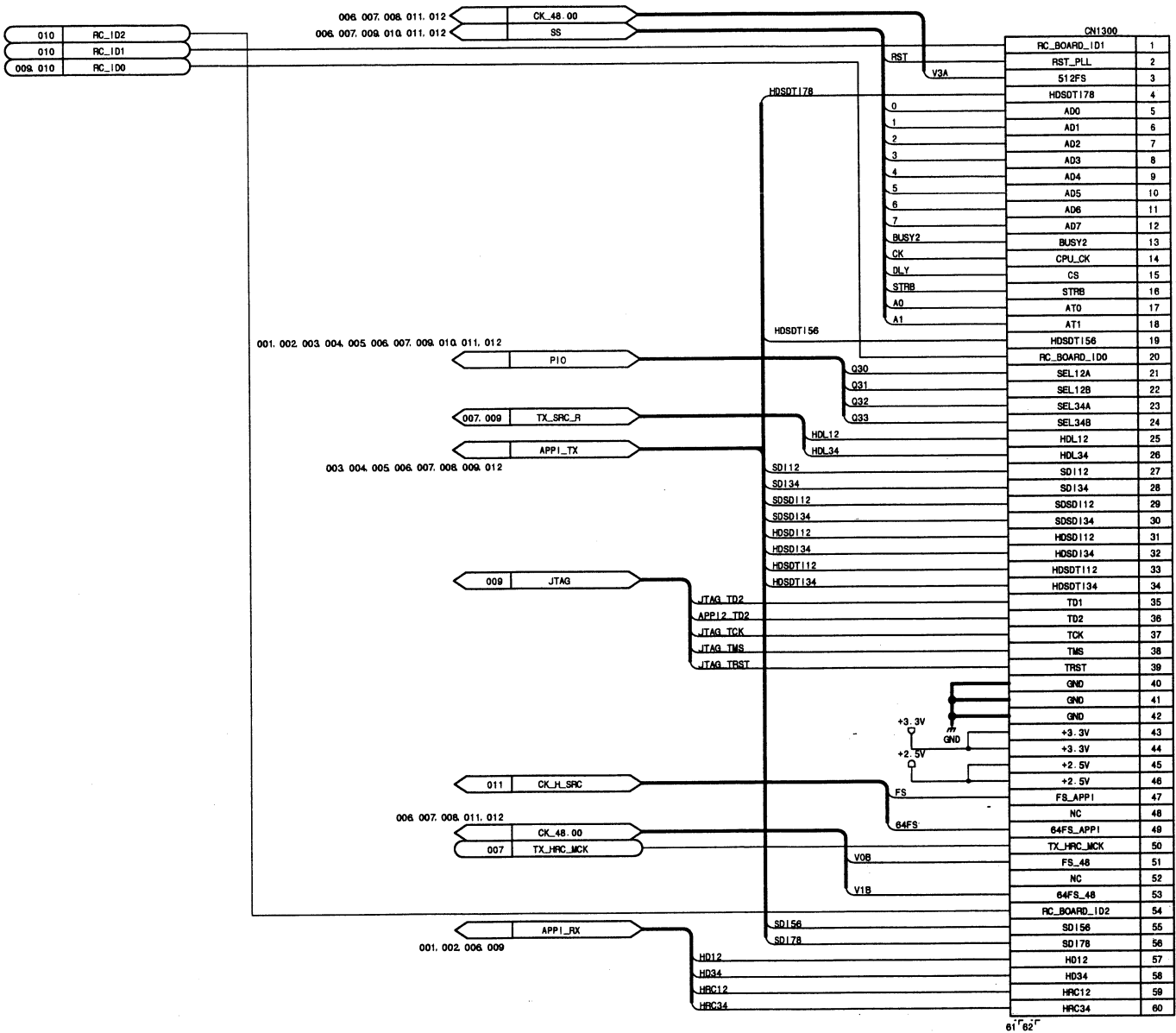
APR-52 (8/12)
SUFFIX: -16



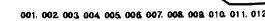
1-32 (b)

1-32 (b)

HDW series, DVW series, MSW series



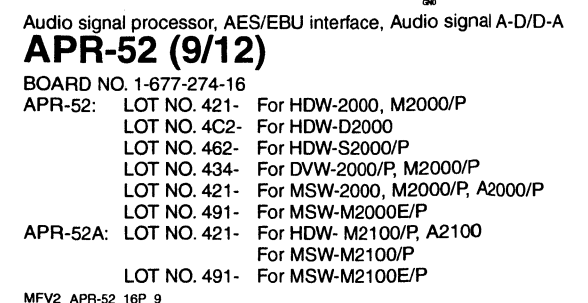
Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (8/12)
BOARD NO. 1-677-274-16
APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P
MFV2_APR-52_16P_8

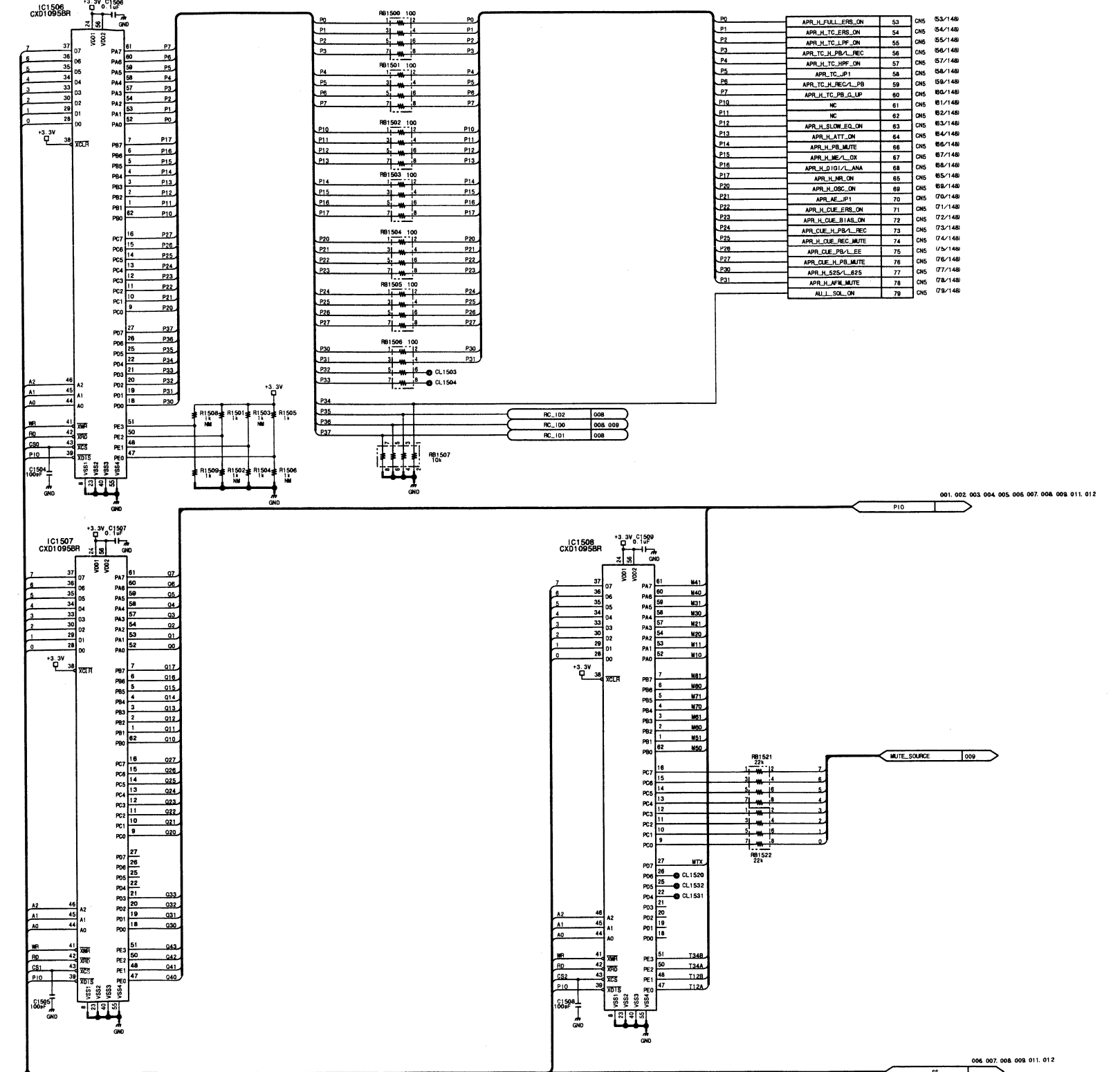
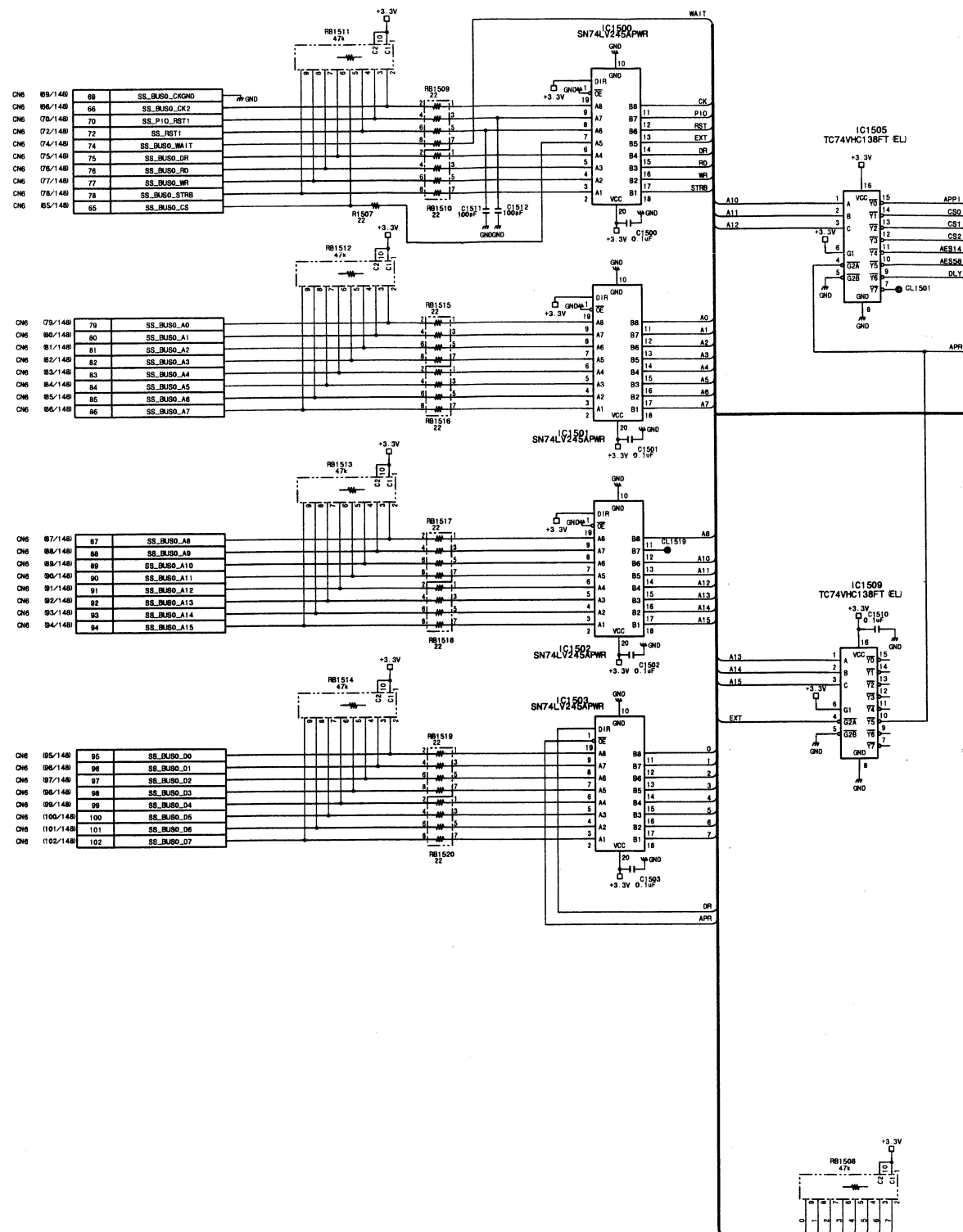


1-34 (b)

4

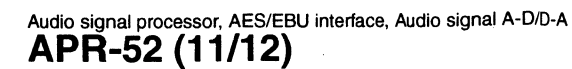
APR-52 (9/12)
SUFFIX: -16





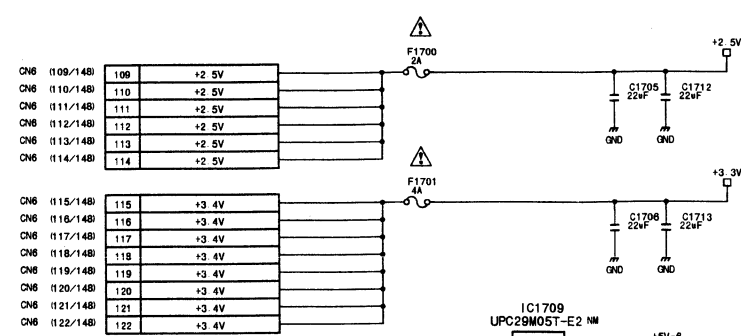
Audio signal processor, AES/EBU interface, Audio signal A/D-D/A
APR-52 (10/12)
 BOARD NO. 1-677-274-16
 APR-52: LOT NO. 421- For HDW-2000, M2000/P
 LOT NO. 4C2- For HDW-D2000
 LOT NO. 462- For HDW-S2000/P
 LOT NO. 434- For DVW-2000/P, M2000/P
 LOT NO. 421- For MSW-2000, M2000/P, A2000/P
 LOT NO. 491- For MSW-M2000E/P
 APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
 For MSW-M2100/P
 LOT NO. 491- For MSW-M2100E/P
 MFV2_APR-52_16P_10
 HDW series, DVW series, MSW series

APR-52 (11/12)
SUFFIX: -16

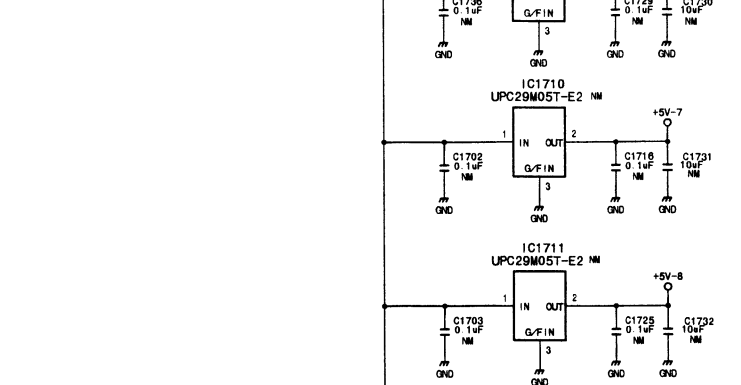


MFV2 APR-52 16P 11

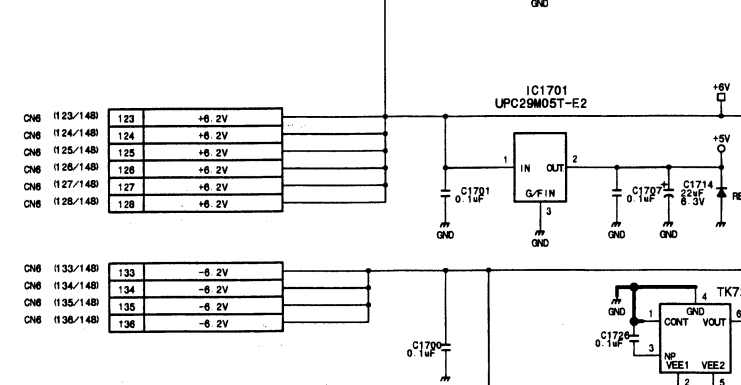
1



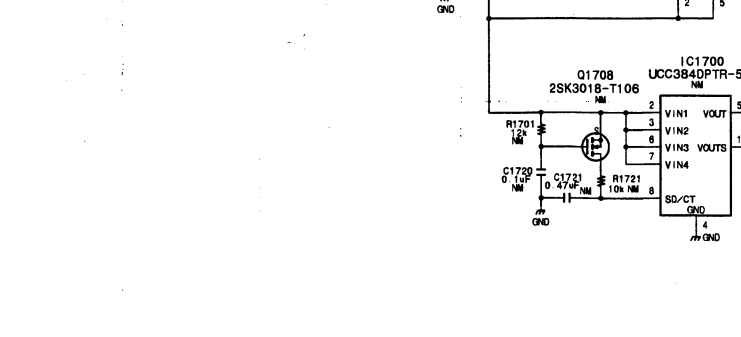
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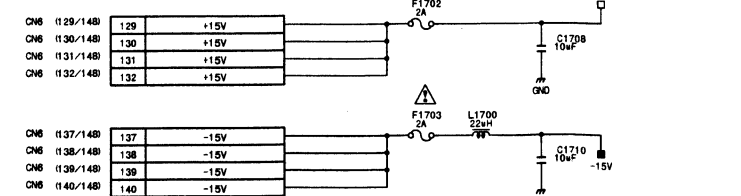
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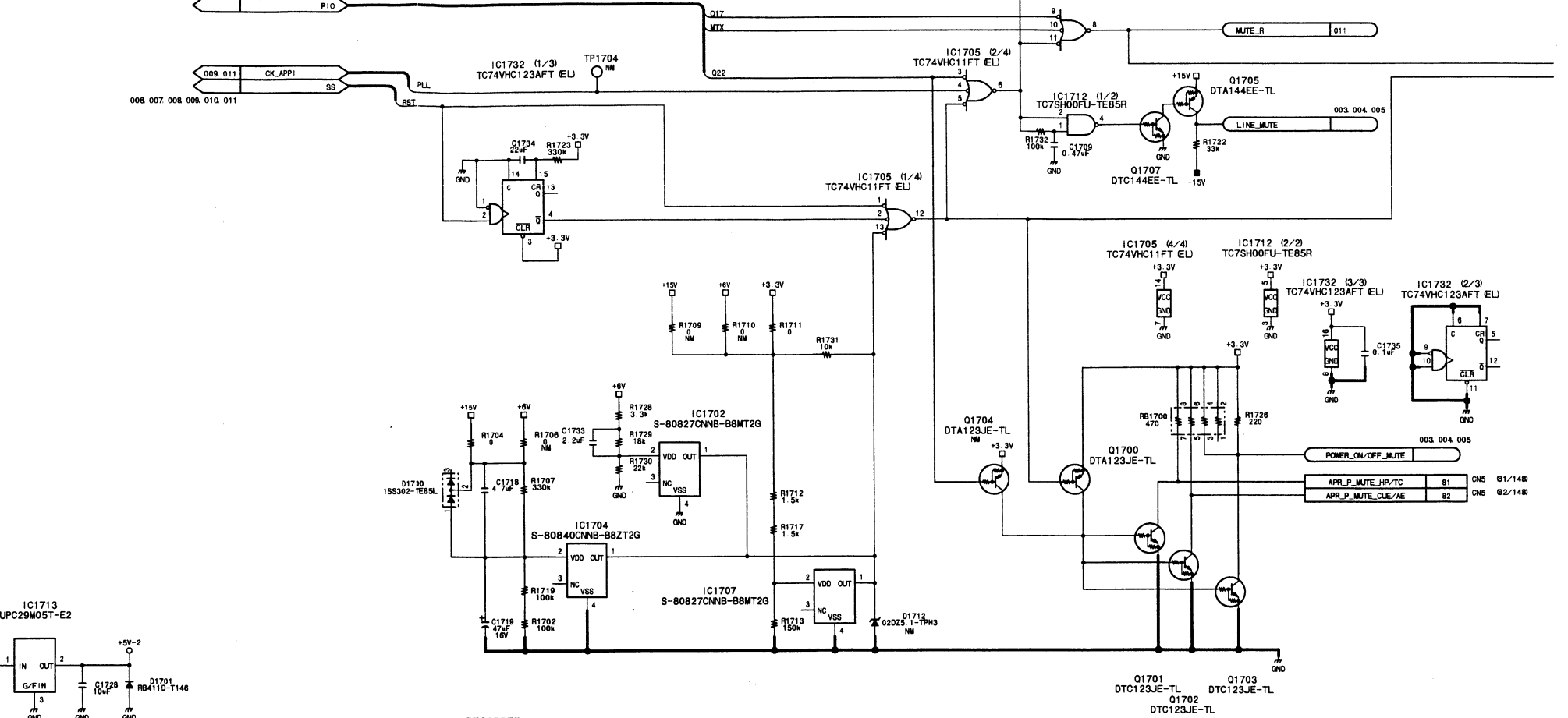
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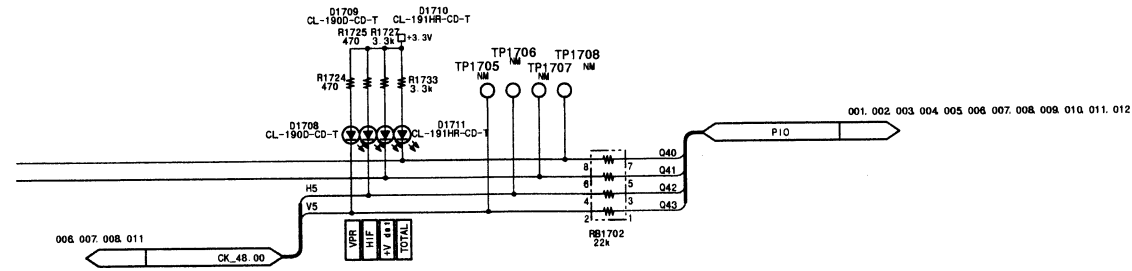


5



001.002.003.004.005.006.007.008.009.010.011.012





CN5	141/148	141	GND
CN5	142/148	142	GND
CN5	143/148	143	GND
CN5	144/148	144	GND
CN5	145/148	145	GND
CN5	146/148	146	GND
CN5	147/148	147	GND
CN5	148/148	148	GND

CN4	11/148	1	GND
CN4	12/148	2	GND
CN4	13/148	3	GND
CN4	14/148	4	GND

CN4	21/148	21	GND
CN4	22/148	22	GND
CN4	23/148	23	GND
CN4	24/148	24	GND

CN4	29/148	29	GND
CN4	30/148	30	GND
CN4	31/148	31	GND
CN4	32/148	32	GND

CN4	37/148	37	GND
CN4	38/148	38	GND
CN4	39/148	39	GND
CN4	40/148	40	GND

CN4	45/148	45	GND
CN4	46/148	46	GND
CN4	47/148	47	GND
CN4	48/148	48	GND

CN4	53/148	53	GND
CN4	54/148	54	GND
CN4	55/148	55	GND
CN4	56/148	56	GND

CN4	61/148	61	GND
CN4	62/148	62	GND
CN4	63/148	63	GND
CN4	64/148	64	GND

CN4	69/148	69	GND
CN4	70/148	70	GND
CN4	71/148	71	GND
CN4	72/148	72	GND

CN4	77/148	77	GND
CN4	78/148	78	GND
CN4	79/148	79	GND
CN4	80/148	80	GND

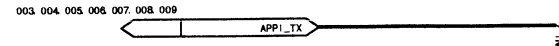
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CN4	88/148	88	GND

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CN4	94/148	94	GND
CN4	95/148	95	GND
CN4	96/148	96	GND

CN4	101/148	101	GND
CN4	102/148	102	GND
CN4	103/148	103	GND
CN4	104/148	104	GND

CN5	93/148	93	GND
CN5	94/148	94	GND
CN5	147/148	147	GND
CN5	148/148	148	GND

CN5	11/148	1	GND
CN5	12/148	2	GND



CN5	33/148	33	AU_APR_UP1
CN5	34/148	34	AU_APR_UP2
CN5	35/148	35	APR_HPR_UP1
CN5	36/148	36	APR_HPR_UP2
CN5	37/148	37	APR_HPR_UP3
CN5	38/148	38	APR_HPR_UP4
CN5	39/148	39	APR_EPR_UP1
CN5	40/148	40	APR_EPR_UP2
CN5	41/148	41	APR_EPR_UP3
CN5	42/148	42	APR_EPR_UP4
CN5	43/148	43	APR_DPR_UP1
CN5	44/148	44	APR_DPR_UP2
CN5	45/148	45	APR_DPR_UP3
CN5	46/148	46	APR_DPR_UP4
CN5	47/148	47	APR_HIF_UP1
CN5	48/148	48	APR_HIF_UP2
CN5	49/148	49	APR_HIF_UP3
CN5	50/148	50	APR_HIF_UP4
CN5	51/148	51	APR_VPR_UP1
CN5	52/148	52	APR_VPR_UP2

CN5	11/148	1	NC
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CN5	13/148	3	NC
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CN5	15/148	5	NC
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CN5	39/148	29	NC
CN5	40/148	30	NC
CN5	41/148	31	NC
CN5	42/148	32	NC
CN5	80/148	80	SS_DRIVE_POWER_ON

CN4	5/148	5	NC
CN4	6/148	6	NC
CN4	7/148	7	NC
CN4	8/148	8	NC
CN4	9/148	9	NC
CN4	10/148	10	NC
CN4	11/148	11	NC
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CN4	15/148	15	NC
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CN4	26/148	26	NC
CN4	27/148	27	NC
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CN4	44/148	44	NC
CN4	45/148	45	NC
CN4	46/148	46	NC
CN4	47/148	47	NC
CN4	48/148	48	NC
CN4	49/148	49	NC
CN4	50/148	50	NC
CN4	51/148	51	NC
CN4	52/148	52	NC

CN6	58/148	58	NC
CN6	59/148	59	NC
CN6	60/148	60	NC
CN6	61/148	61	NC
CN6	62/148	62	NC
CN6	63/148	63	NC
CN6	64/148	64	NC

CN6	51/148	51	SS_APR_UP1
CN6	52/148	52	SS_APR_UP2
CN6	53/148	53	SS_BOSS_RSV1

CN6	103/148	103	-2.0V
CN6	104/148	104	-2.0V
CN6	105/148	105	+1.5V
CN6	106/148	106	+1.5V
CN6	107/148	107	+2.0V
CN6	108/148	108	+2.0V

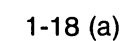
Audio signal processor, AES/EBU interface, Audio signal A-D/D-A

APR-52 (12/12)

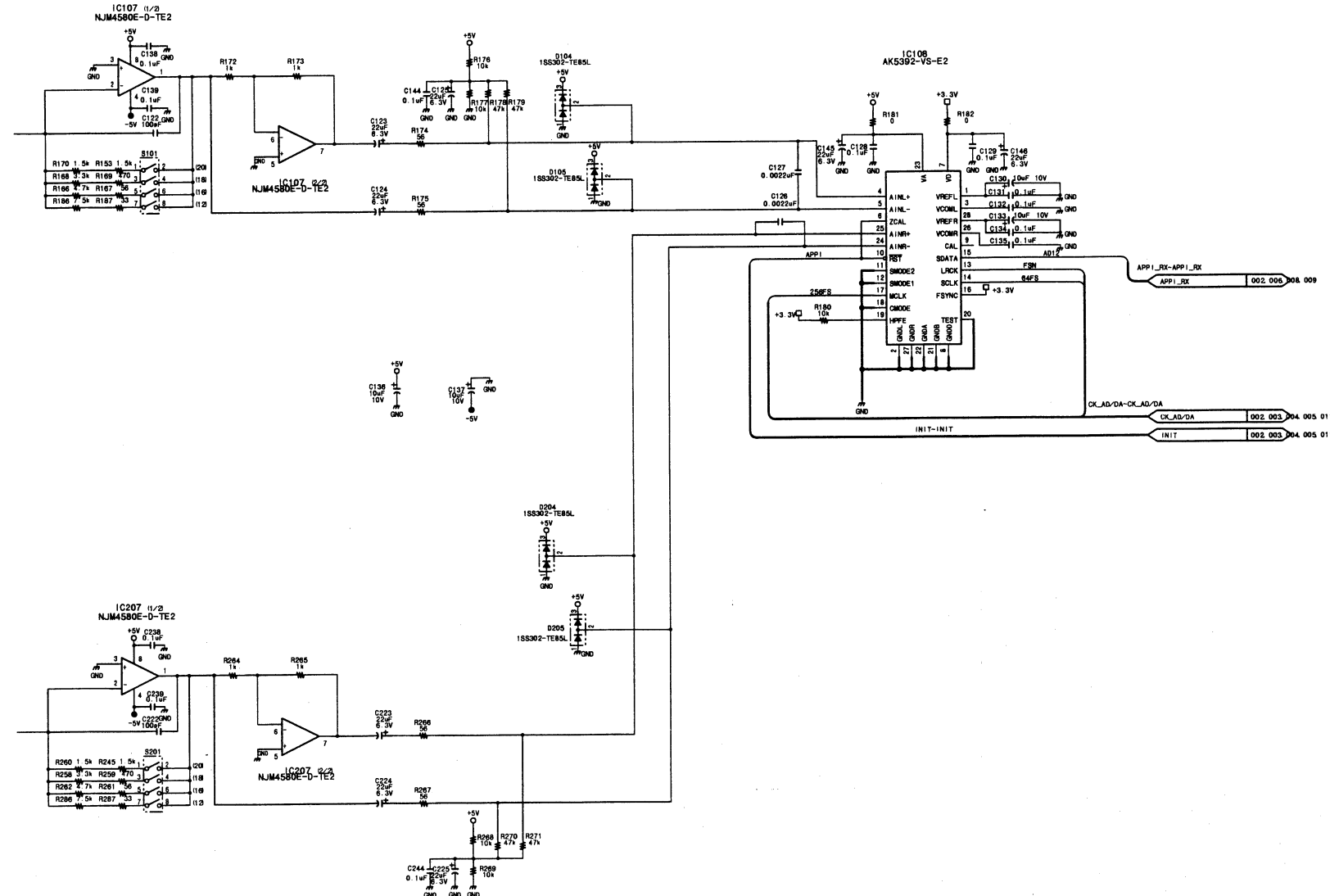
BOARD NO. 1-677-274-16

- APR-52: LOT NO. 421- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 421- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P
APR-52A: LOT NO. 421- For HDW- M2100/P, A2100
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV2_APR-52_16P_12



H

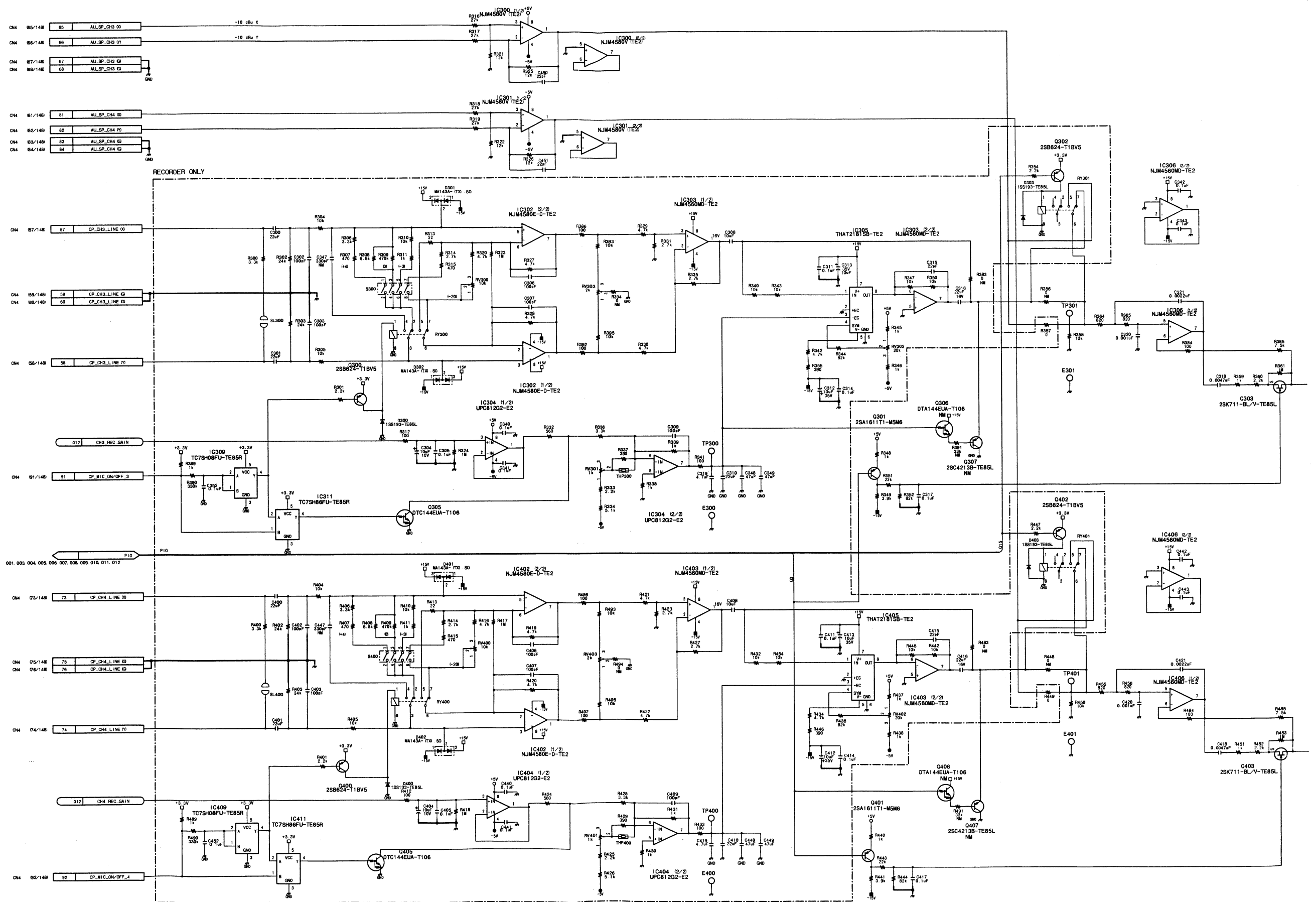


REF. NO.	Recorder	Player	REF. NO.	Recorder	Player	REF. NO.	Recorder	Player
C100	22uF	NM	IC205	THAT2181SB	NM	R203	24k	NM
C101	22uF	NM	IC206	TC7SH08FU-	NM	R204	10k	NM
C102	100uF	NM	IC209	TC7SH08FU-	NM	R205	10k	NM
C103	100uF	NM	IC211	TC7SH08FU-	NM	R206	3.3k	NM
C104	10uF	NM	Q100	2SB824-T1B	NM	R207	470k	NM
C105	0.1uF	NM	Q102	2SB824-T1B	NM	R208	6.8k	NM
C106	100uF	NM	Q105	DT144ELA-	NM	R209	470k	NM
C107	100uF	NM	Q200	2SB824-T1B	NM	R210	10k	NM
C108	10uF	NM	Q202	2SB824-T1B	NM	R211	1k	NM
C109	100uF	NM	Q205	DT144ELA-	NM	R212	100k	NM
C110	22uF	NM	R100	3.3k	NM	R213	22k	NM
C111	0.1uF	NM	R101	2.2k	NM	R214	2.2k	NM
C112	10uF	NM	R102	24k	NM	R215	470k	NM
C113	10uF	NM	R103	24k	NM	R216	4.7k	NM
C114	0.1uF	NM	R104	10k	NM	R217	1M	NM
C115	22uF	NM	R105	10k	NM	R218	1M	NM
C116	22uF	NM	R106	10k	NM	R219	4.7k	NM
C140	0.1uF	NM	R107	470k	NM	R220	4.7k	NM
C141	0.1uF	NM	R108	6.8k	NM	R221	4.7k	NM
C148	47uF	NM	R109	470k	NM	R222	4.7k	NM
C149	47uF	NM	R110	10k	NM	R223	2.2k	NM
C152	0.1uF	NM	R111	1k	NM	R224	50k	NM
C200	22uF	NM	R112	100k	NM	R225	2.2k	NM
C201	22uF	NM	R113	22k	NM	R226	5.1k	NM
C202	100uF	NM	R114	2.7k	NM	R227	2.7k	NM
C203	100uF	NM	R115	470k	NM	R228	2.7k	NM
C204	10uF	NM	R120	4.7k	NM	R229	30k	NM
C205	0.1uF	NM	R123	1M	NM	R230	1k	NM
C206	100uF	NM	R124	1M	NM	R231	1k	NM
C207	100uF	NM	R127	4.7k	NM	R232	10k	NM
C208	100uF	NM	R128	4.7k	NM	R233	100k	NM
C209	100uF	NM	R129	4.7k	NM	R234	4.7k	NM
C210	22uF	NM	R130	4.7k	NM	R235	10k	NM
C211	0.1uF	NM	R131	2.7k	NM	R236	85k	NM
C212	10uF	NM	R132	50k	NM	R237	1k	NM
C213	10uF	NM	R133	2.7k	NM	R238	1k	NM
C214	0.1uF	NM	R134	5.1k	NM	R242	10k	NM
C215	22uF	NM	R135	2.7k	NM	R246	20k	NM
C216	22uF	NM	R136	3.3k	NM	R247	2.2k	NM
C240	0.1uF	NM	R137	50k	NM	R248	10k	NM
C241	0.1uF	NM	R138	1k	NM	R257	NM	0
C248	47uF	NM	R139	1k	NM	R289	1k	NM
C249	47uF	NM	R140	10k	NM	R290	330k	NM
C252	0.1uF	NM	R141	100k	NM	RV100	10k	NM
D100	1S8193-TE8	NM	R142	10k	NM	RV101	1k	NM
D101	MA143A-TX	NM	R143	10k	NM	RV102	20k	NM
D102	MA143A-TX	NM	R144	85k	NM	RV200	10k	NM
D103	1S8193-TE8	NM	R145	1k	NM	RV201	1k	NM
D200	1S8193-TE8	NM	R146	1k	NM	RV202	20k	NM
D201	MA143A-TX	NM	R147	20k	NM	RY100	175537921	NM
D202	MA143A-TX	NM	R150	10k	NM	RY101	175537921	NM
D203	1S8193-TE8	NM	R154	2.2k	NM	RY200	175537921	NM
E100	153587722	NM	R157	NM	0	RY201	175537921	NM
E200	153587722	NM	R162	4.7k	NM	S100	169227041	NM
IC102	NJM4580E-D	NM	R189	1k	NM	S200	169227041	NM
IC103	NJM4580E-D	NM	R190	230k	NM	SL100	SL	NM
IC104	UPC81202-E	NM	R200	3.3k	NM	SL200	SL	NM
IC105	THAT2181SB	NM	R201	2.2k	NM	TP100	181010891	NM
IC111	TC7SH08FU-	NM	R202	24k	NM	TP200	153587722	NM
IC202	NJM4580E-D	NM						
IC203	NJM4580E-D	NM						
IC204	UPC81202-E	NM						

Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (1/13)
 BOARD NO. 1-677-274-14
 APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
 APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
 For HDW-M2100/P, A2100
 For MSW-M2100/P
 MFV2_APR-52_103_1

APR-52 (2/13)
SUFFIX: -14

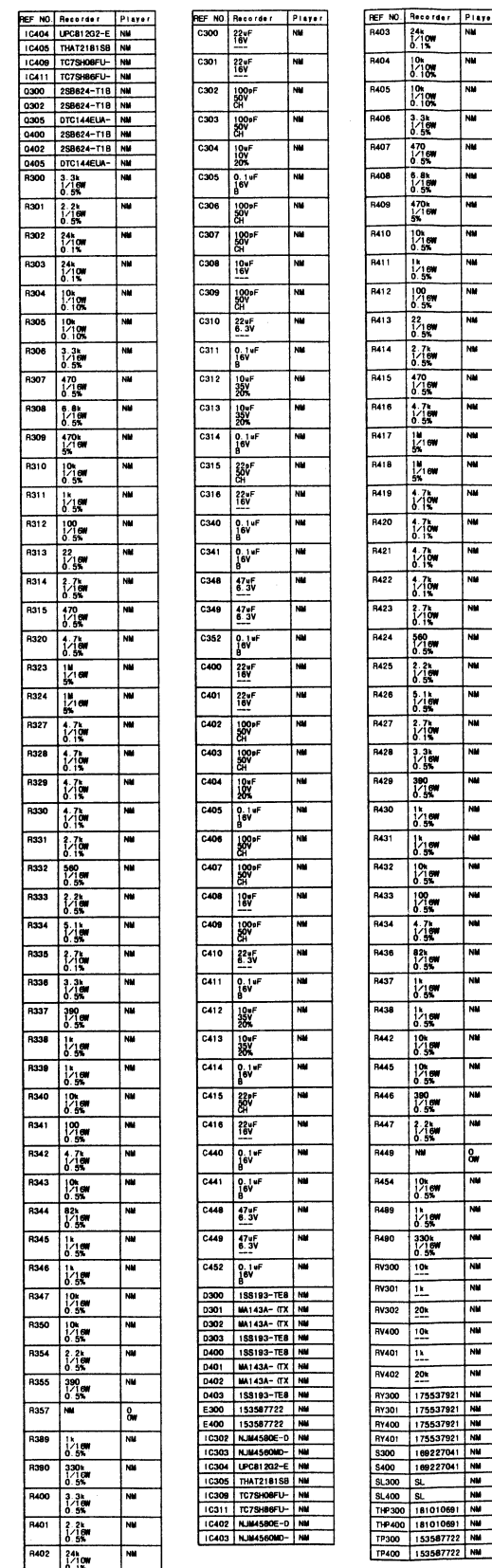
APR-52 (2/13)
SUFFIX: -14



1-20 (a)

1-20 (a)

HDW series, DVW series, MSW series

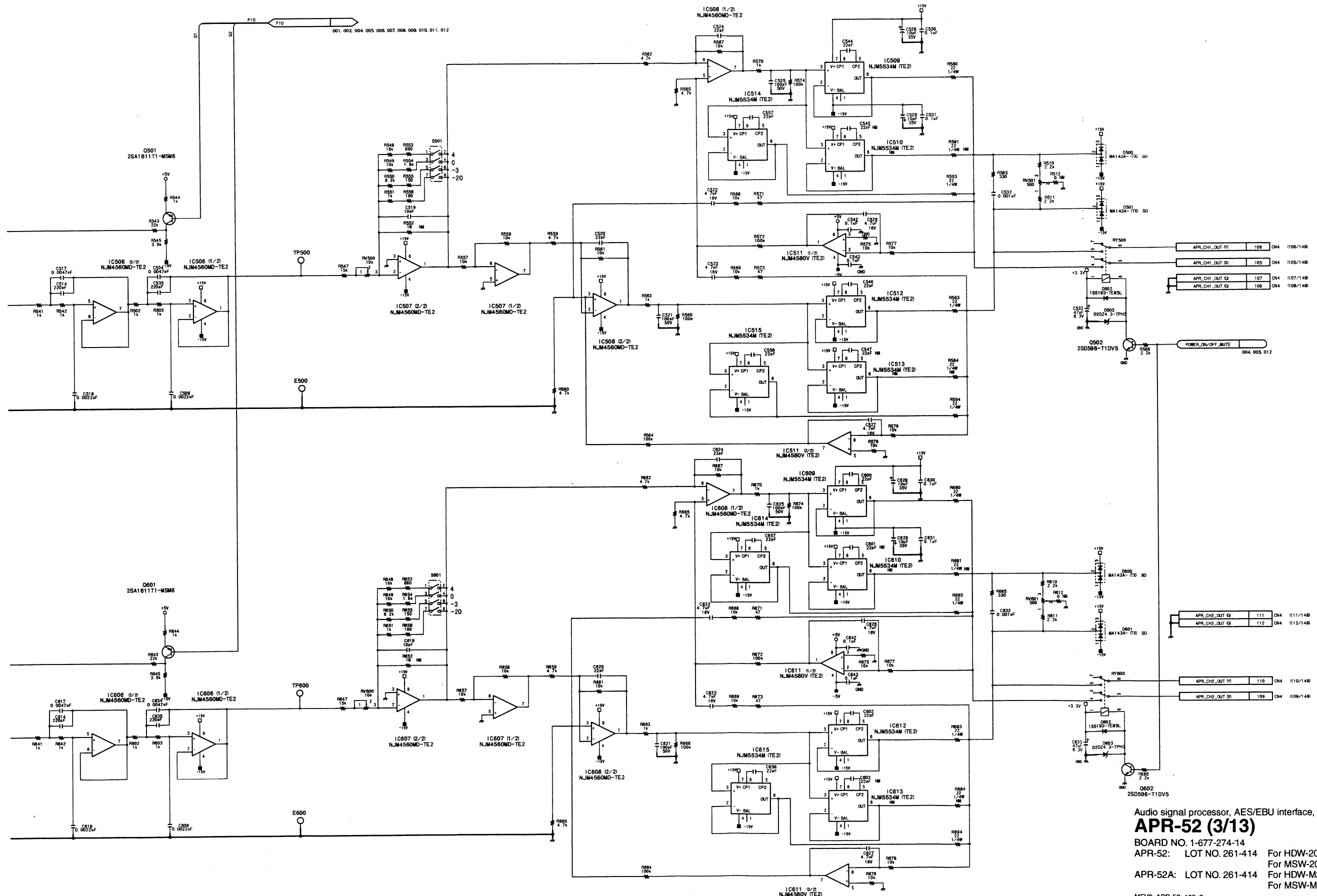


HDW series, DVW series, MSW series

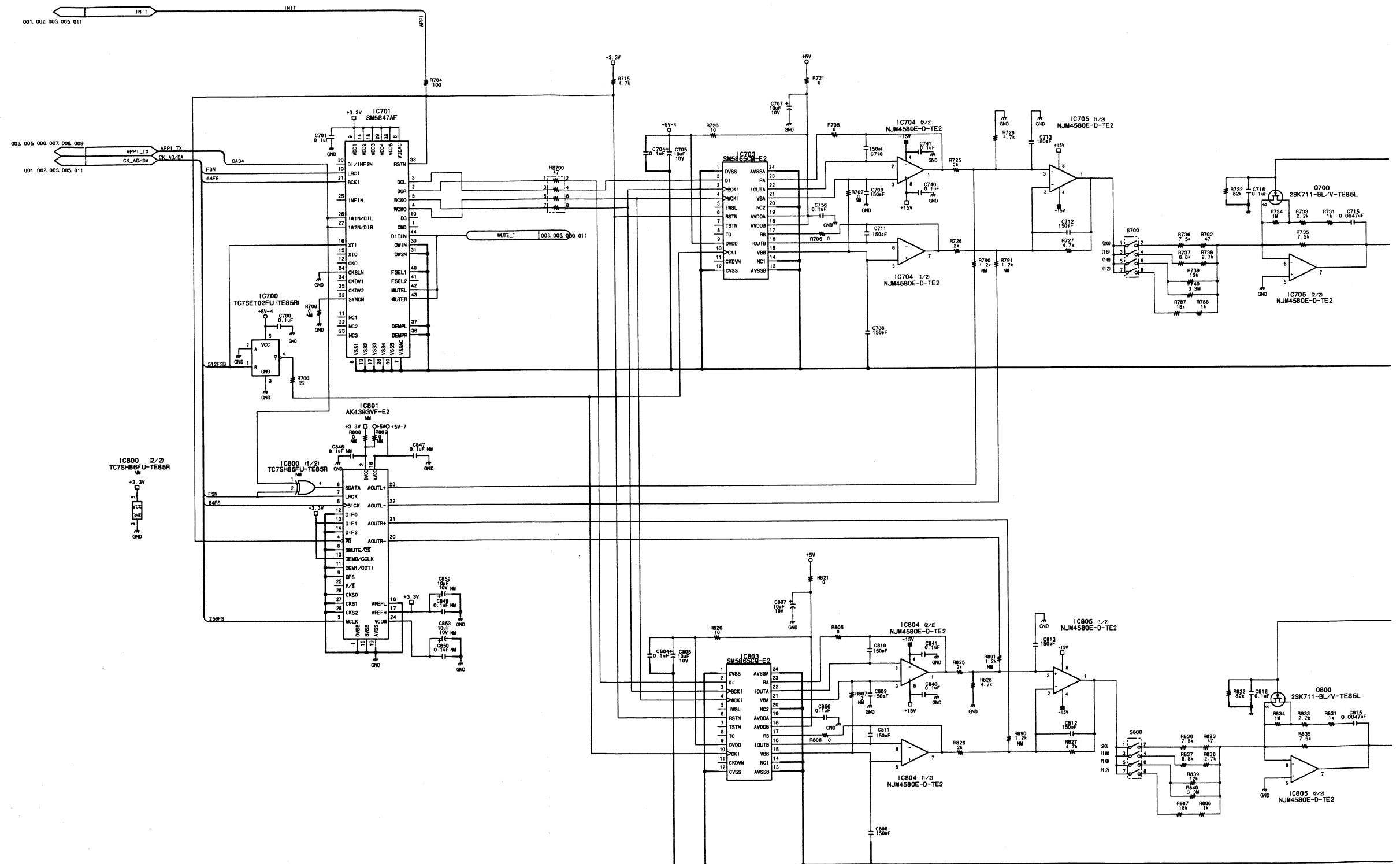
APR-52 (3/13)
SUFFIX: -14

APR-52 (3/13)
SUFFIX: -14

APR-52 (3/13)
SUFFIX: -14

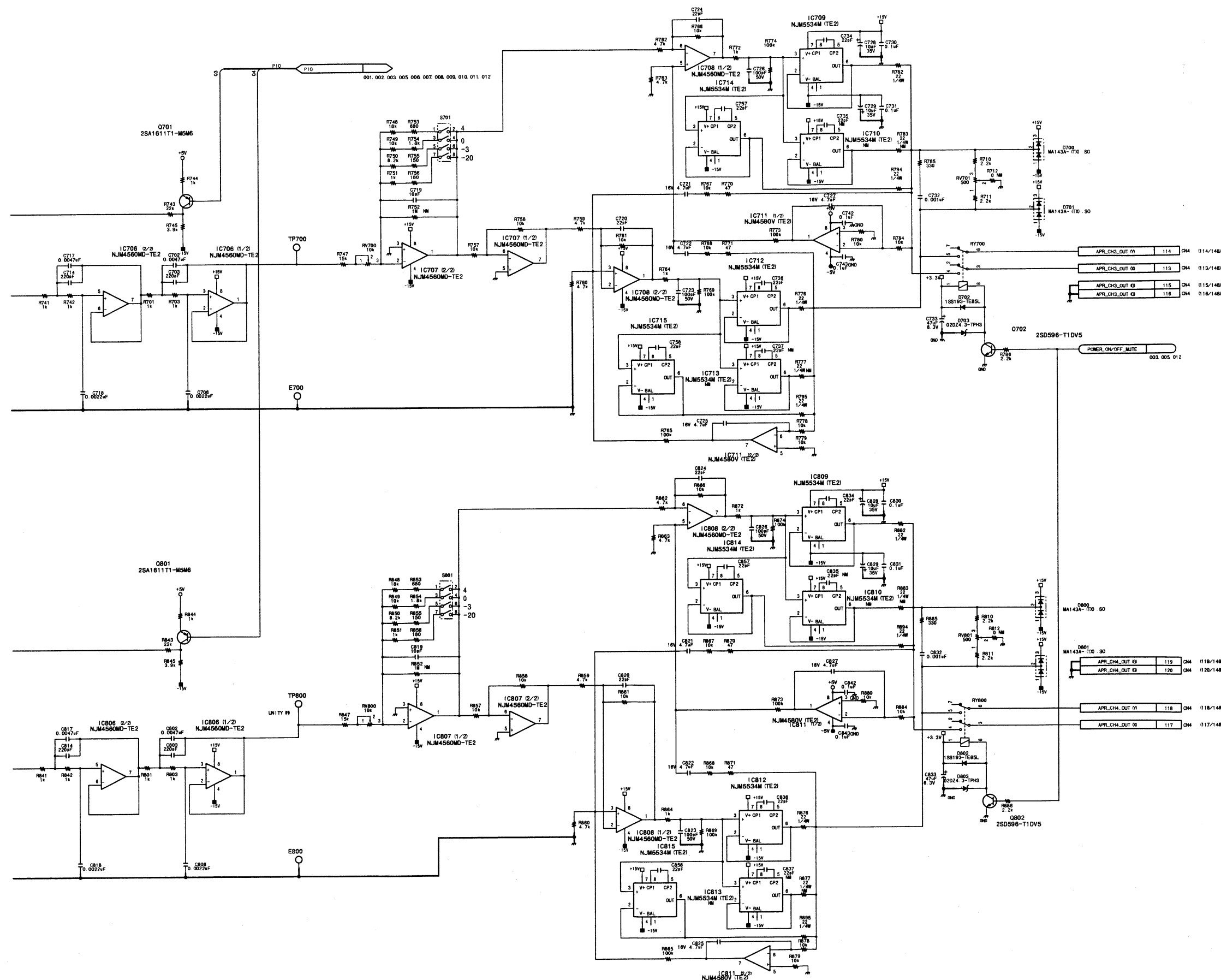


Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (3/13)
 BOARD NO. 1-677-274-14
 APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
 APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
 For HDW-M2100/P, A2100
 For MSW-M2100/P
 MFV2_APR-52_103_3

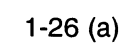


APR-52 (4/13)
SUFFIX: -14

APR-52 (4/13)
SUFFIX: -14

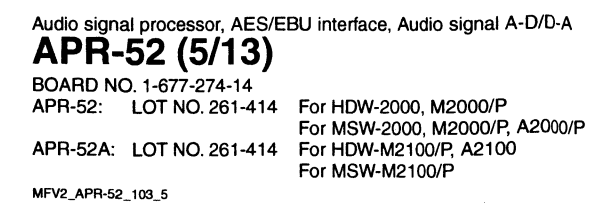


Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (4/13)
BOARD NO. 1-677-274-14
APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
For HDW-M2100/P, A2100
For MSW-M2100/P
MFV2_APR-52_103_4

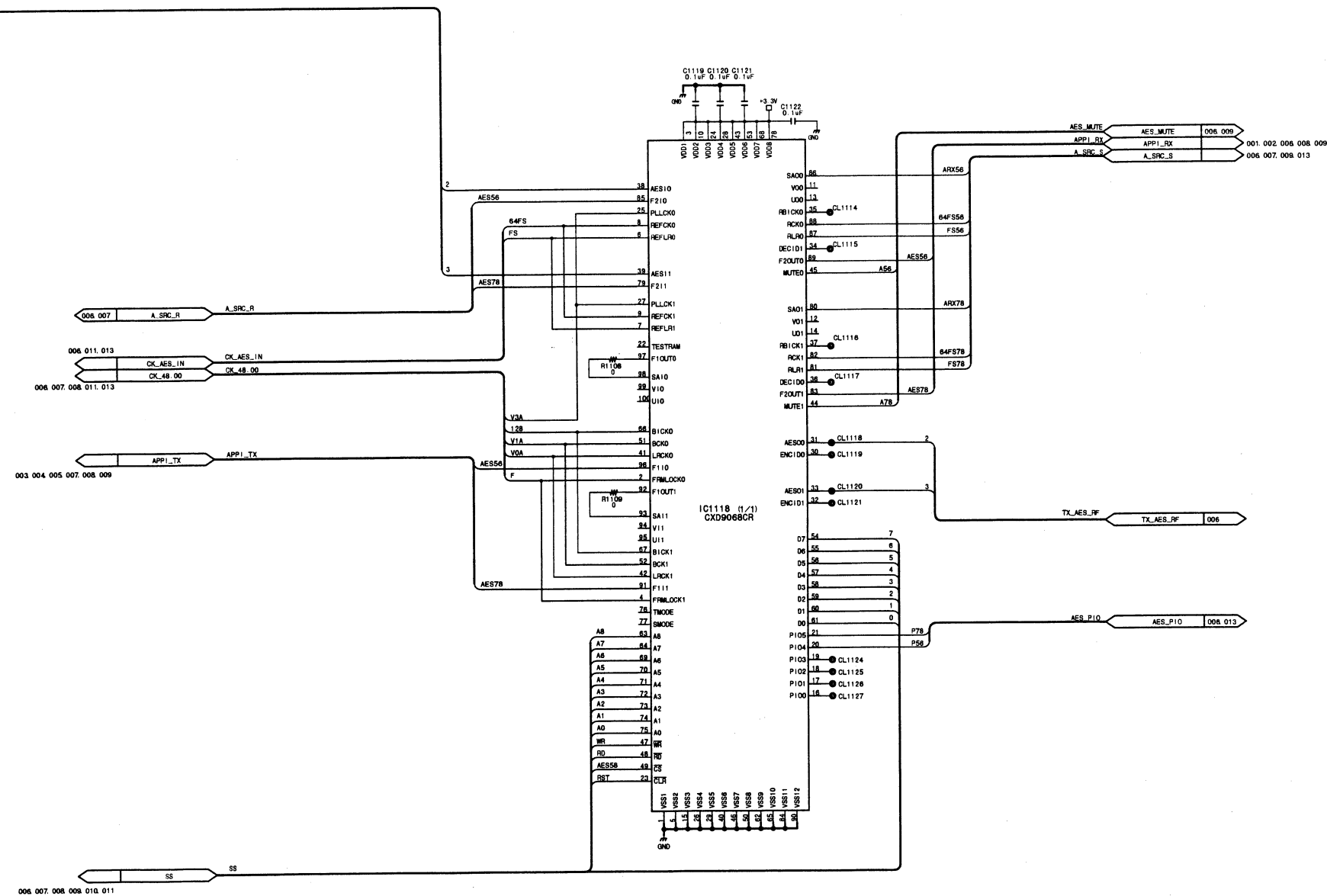


4

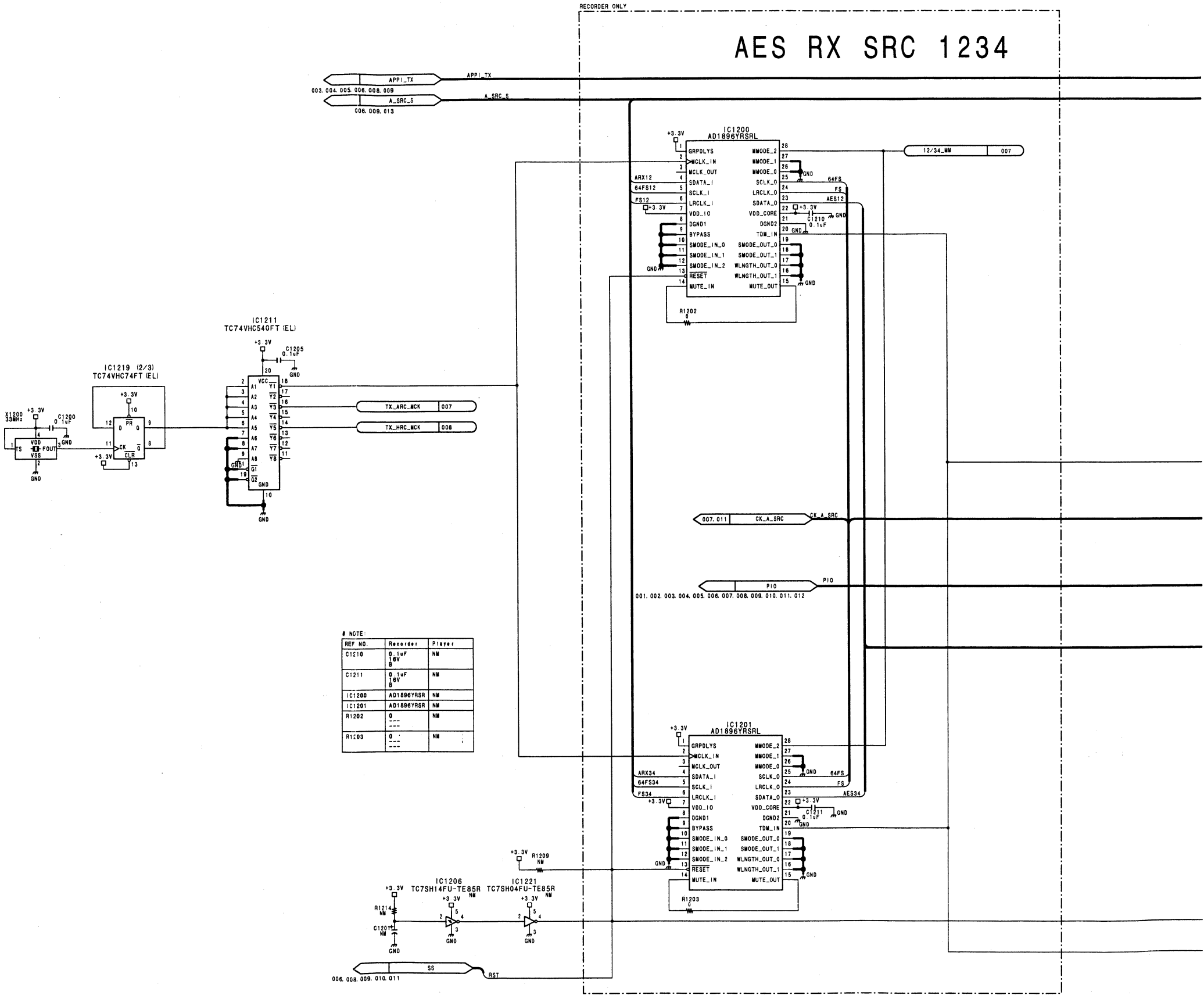
APR-52 (5/13)
SUFFIX: -14



AES I/O 5678



Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (6/13)
 BOARD NO. 1-677-274-14
 APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
 APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
 For HDW-M2100/P, A2100
 For MSW-M2100/P
 MFV2-APR-52_103_6

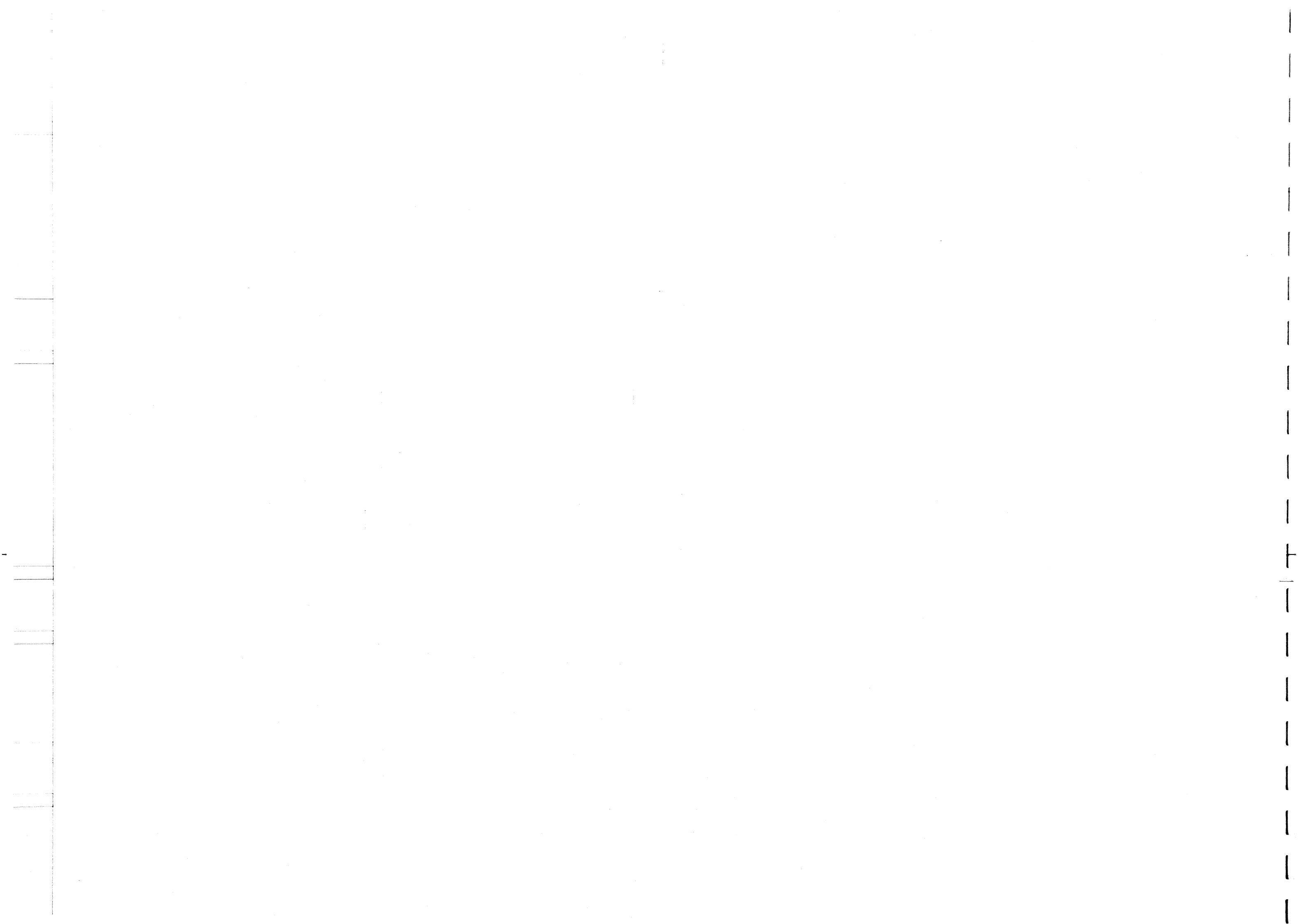


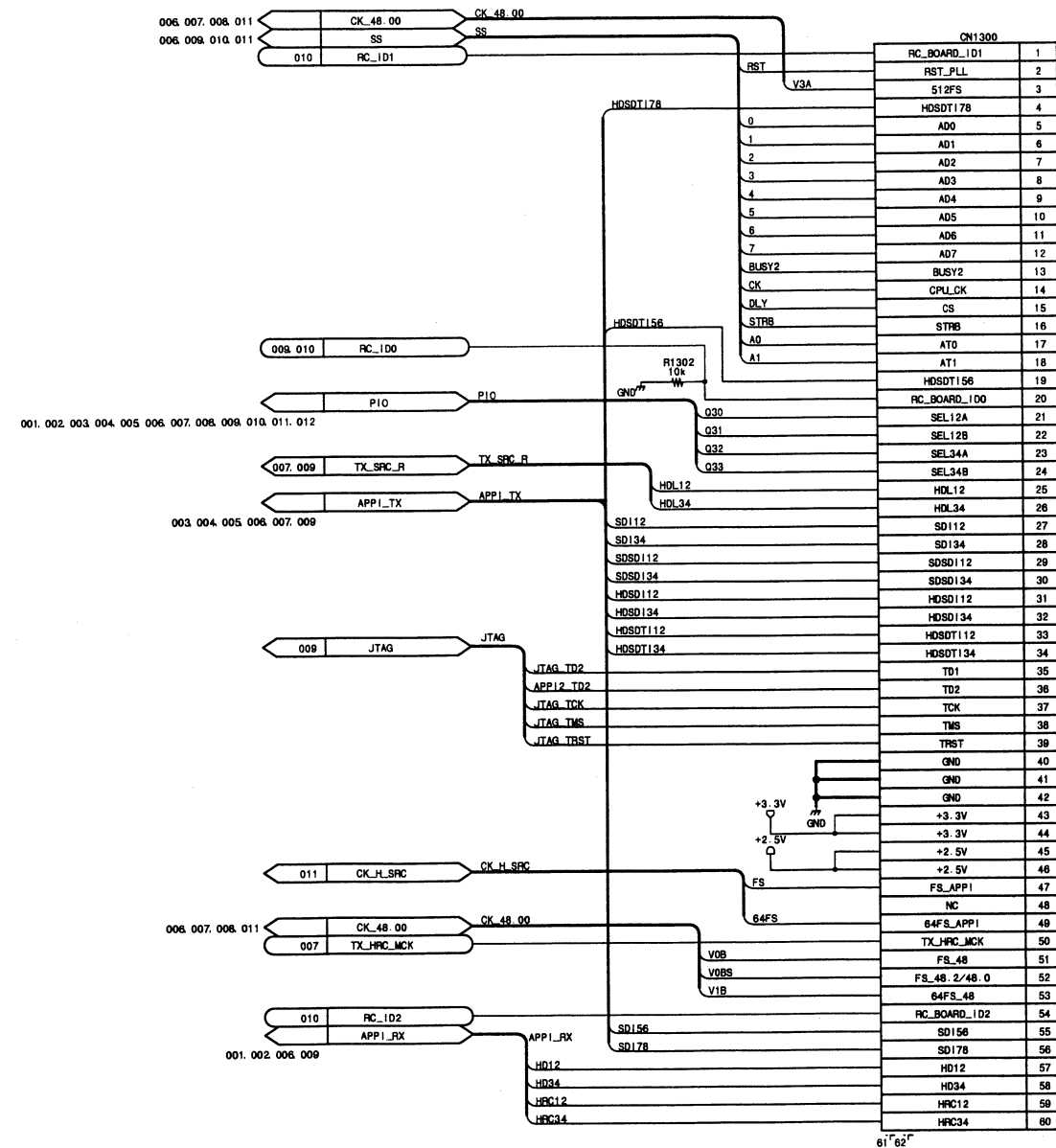
APR-52 (7/13)
SUFFIX: -14

[illegible]

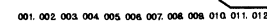
BOARD NO. 1-677-274-14
APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
For MSW-2000, M2000/P, A2000/P
APR-52A: LOT NO. 261-414 For HDW-M2100/P, A2100
For MSW-M2100/P

5





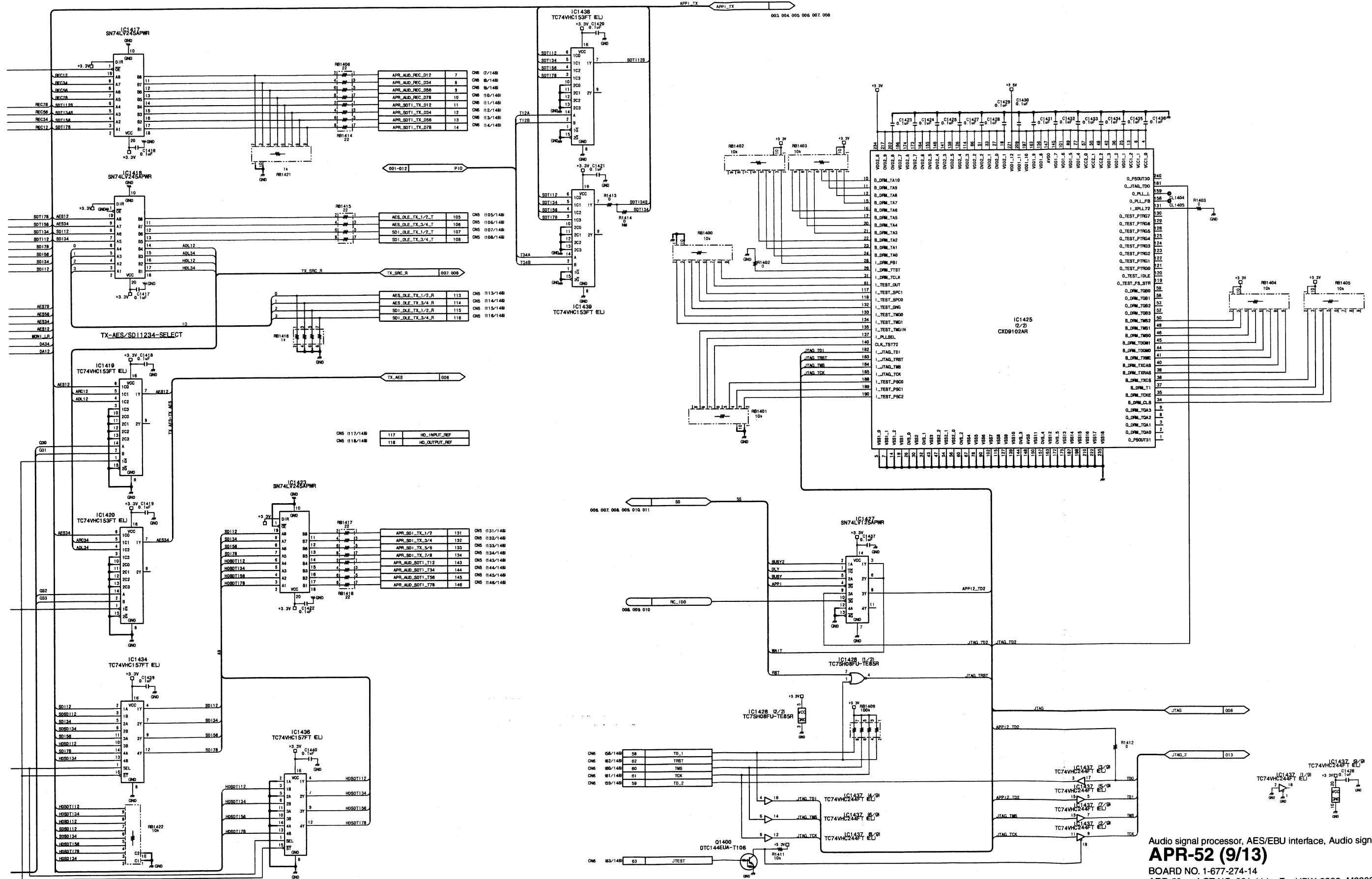
Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (8/13)
 BOARD NO. 1-677-274-14
 APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
 APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
 For HDW-M2100/P, A2100
 For MSW-M2100/P
 MFV2_APR-52_103_8



H

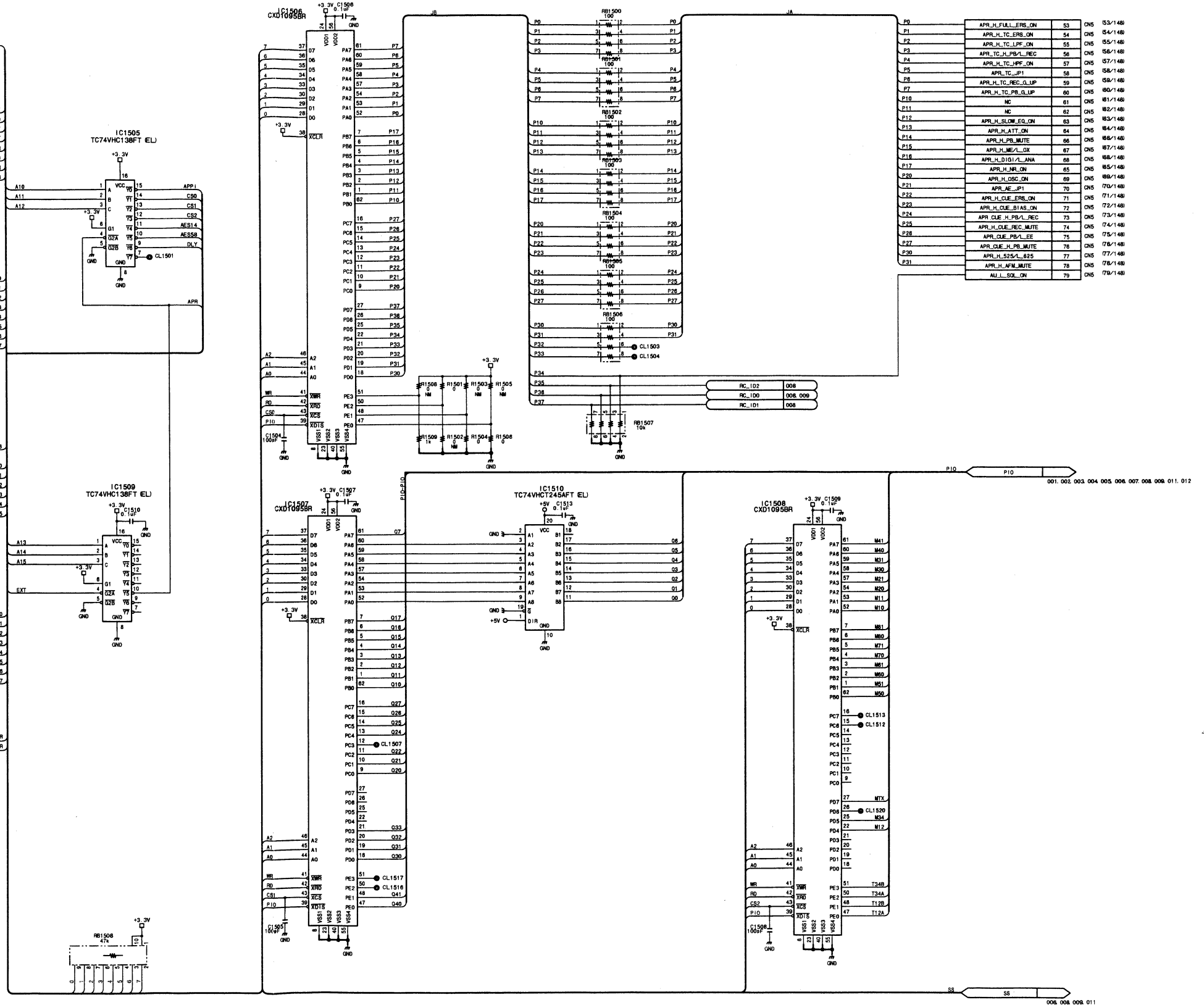
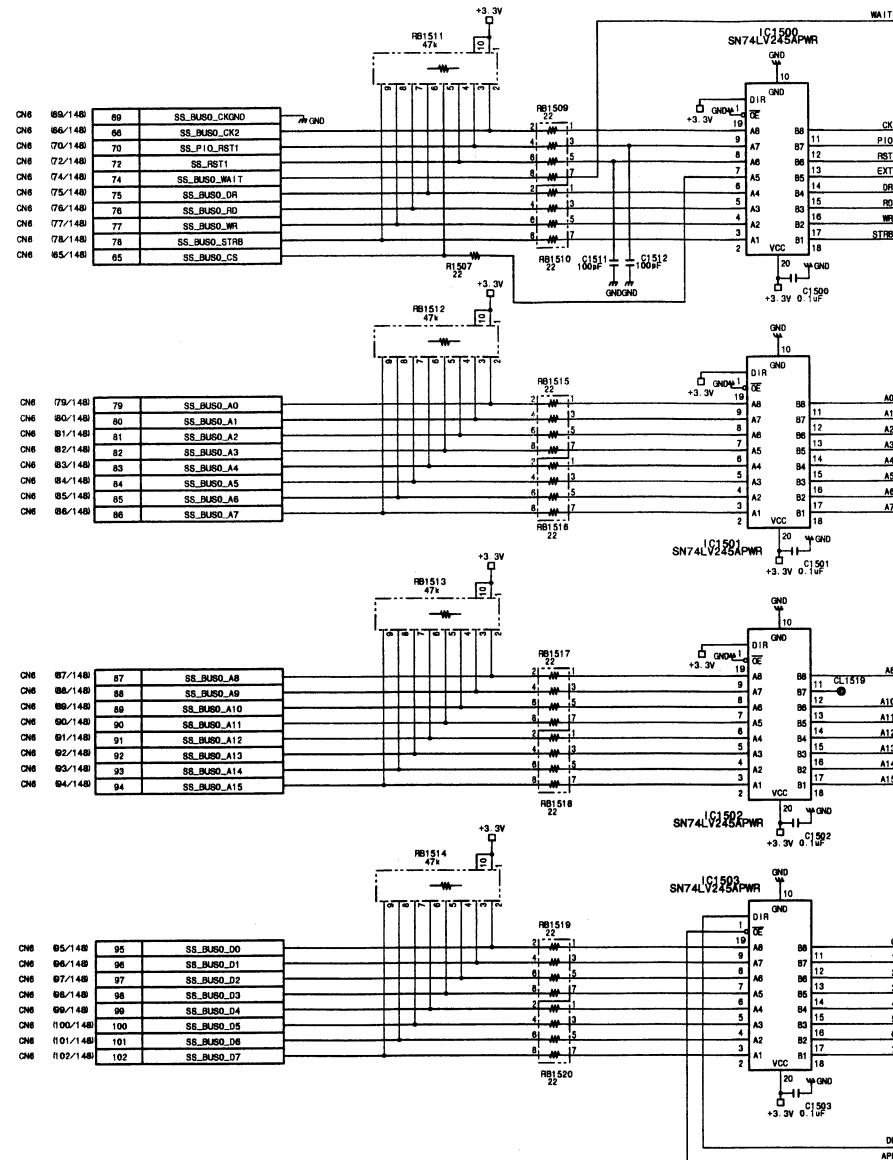
APR-52 (9/13)
SUFFIX: -14

APR-52 (9/13)
SUFFIX: -14



APR-52 (10/13)
SUFFIX: -14

APR-52 (10/13)
SUFFIX: -14



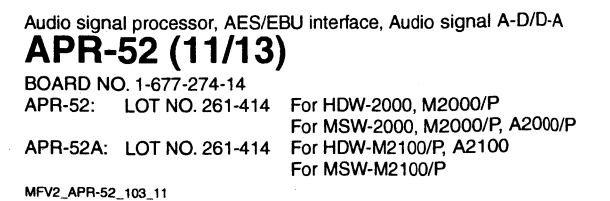
Audio signal processor, AES/EBU interface, Audio signal A/D-D/A
APR-52 (10/13)
BOARD NO. 1-677-274-14
APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2100
For MSW-M2100/P
MFV2_APR-52_103_10

1-36 (a)

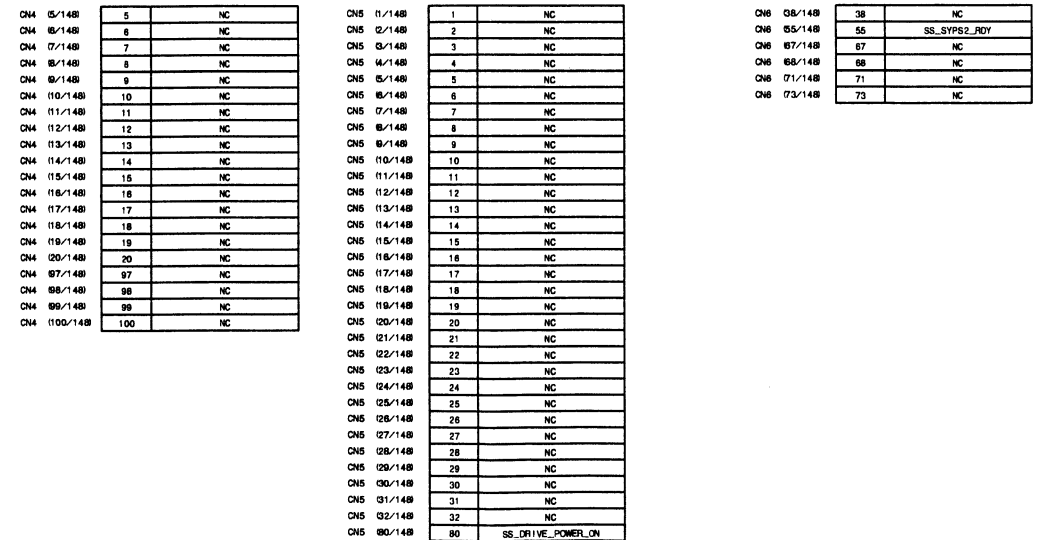
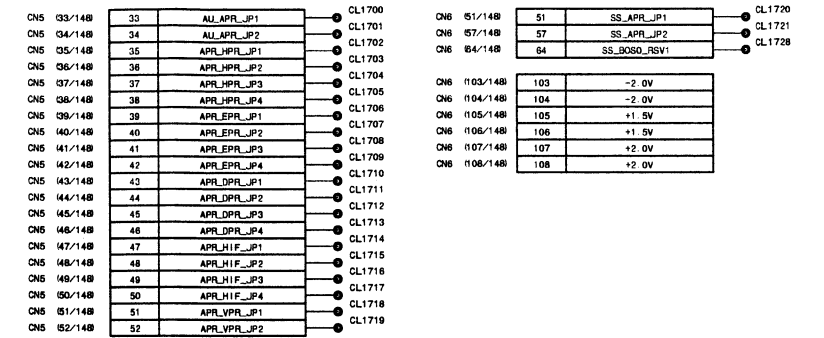
1-36 (a)

HDW series, DVW series, MSW series

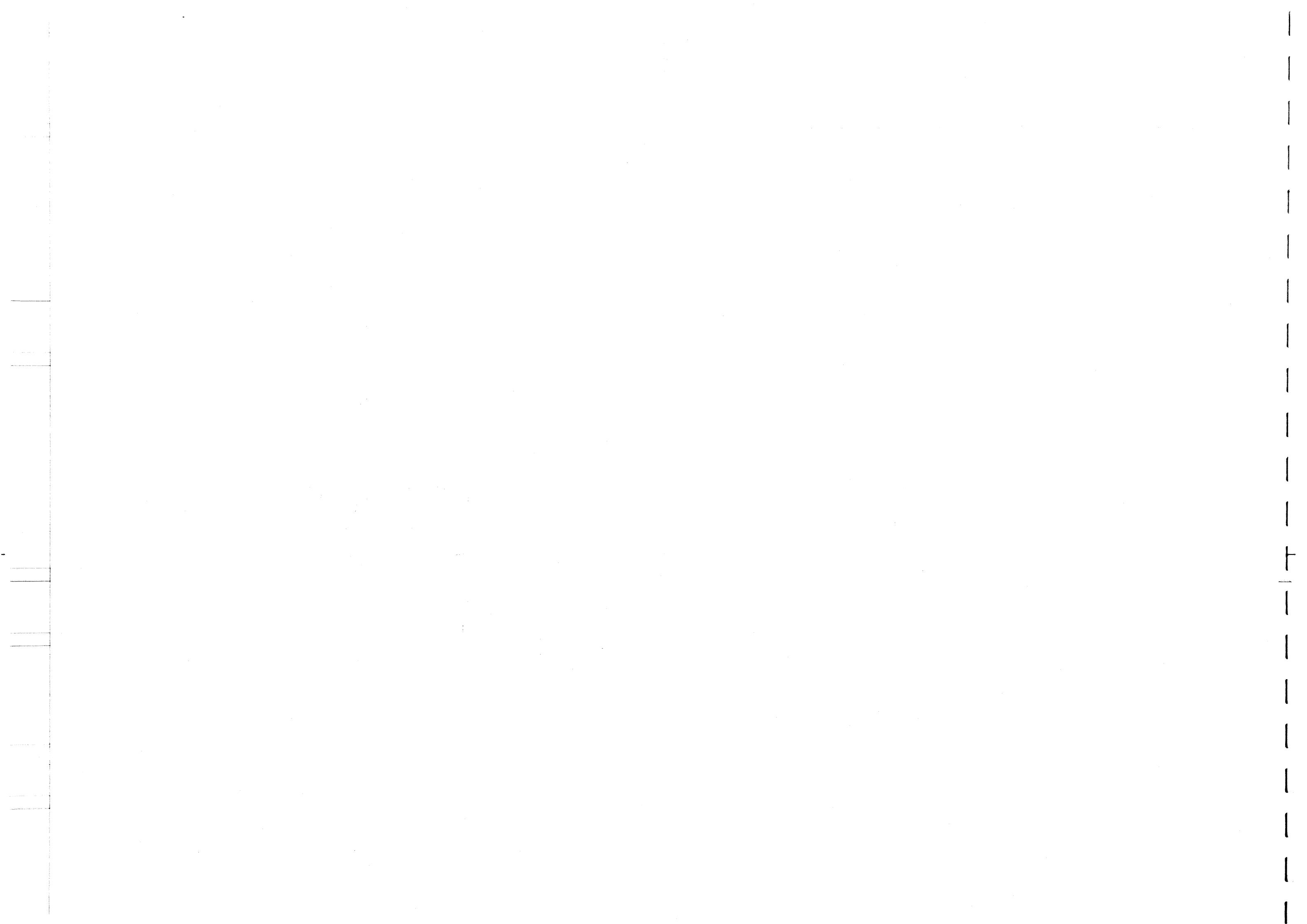
APR-52 (11/13)
SUFFIX: -14



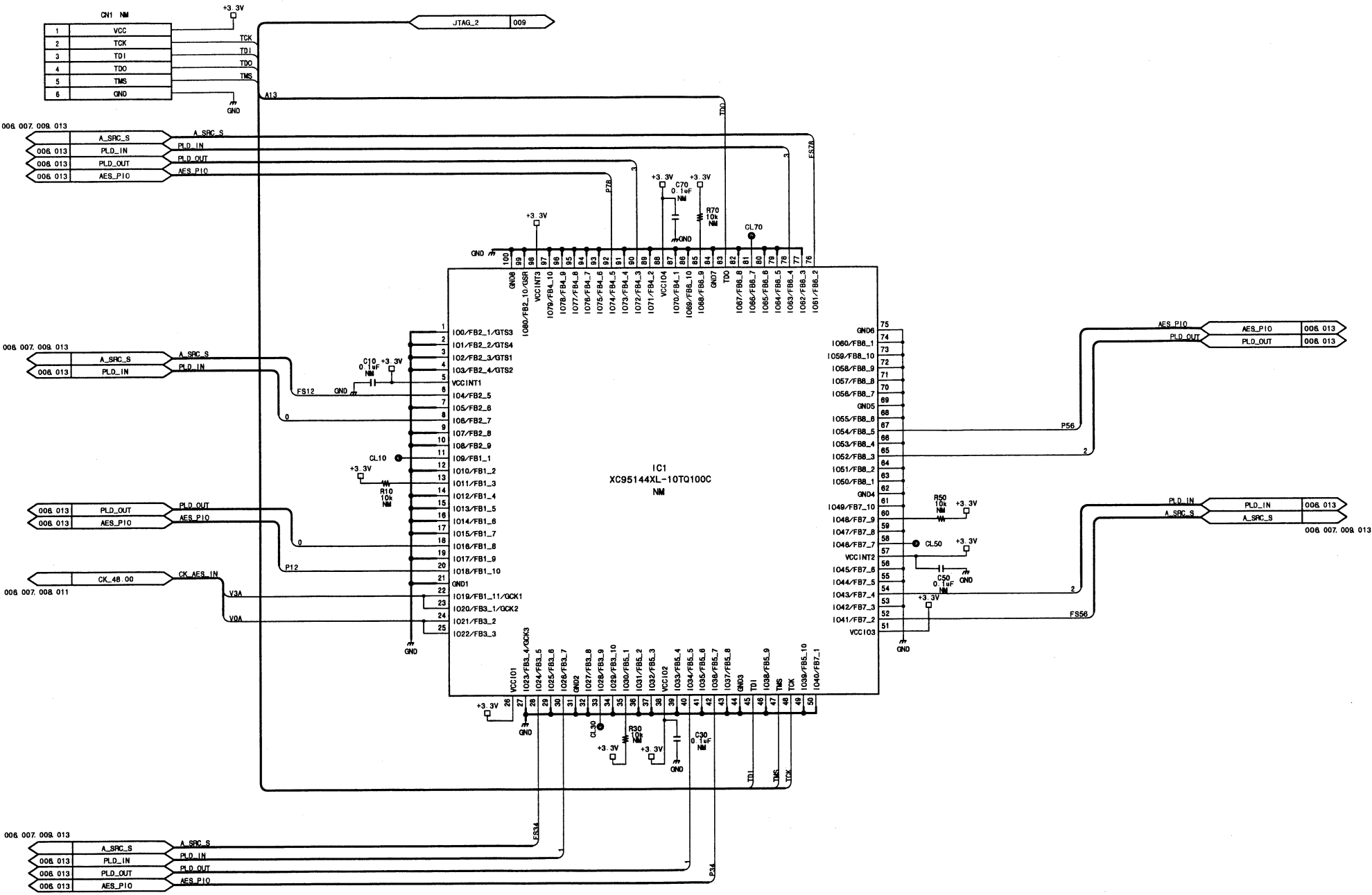
HDW series, DVW series, MSW series



HDW series, DVW series, MSW series



RECORDER ONLY

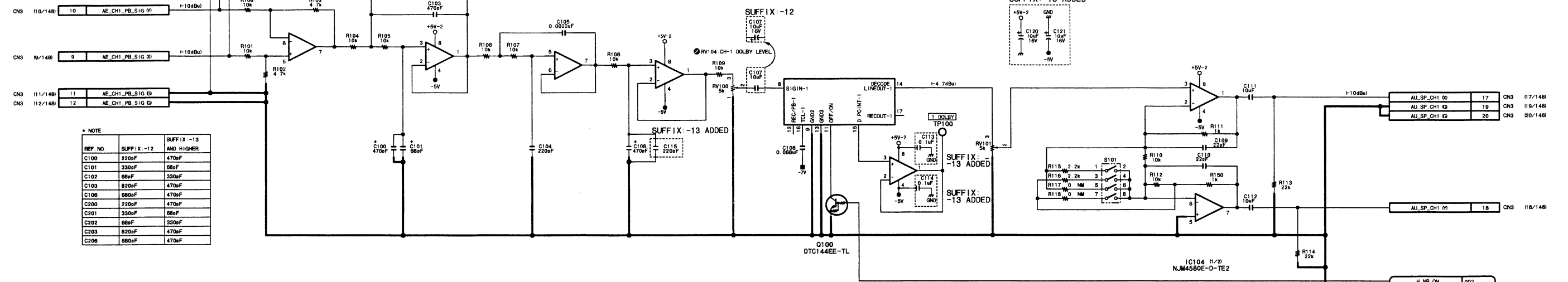


Audio signal processor, AES/EBU interface, Audio signal A-D/D-A
APR-52 (13/13)
BOARD NO. 1-677-274-14
APR-52: LOT NO. 261-414 For HDW-2000, M2000/P
APR-52A: LOT NO. 261-414 For MSW-2000, M2000/P, A2000/P
For HDW-M2100/P, A2100
For MSW-M2100/P
MFV2_APR-52_103_13

DOLBY DECODE

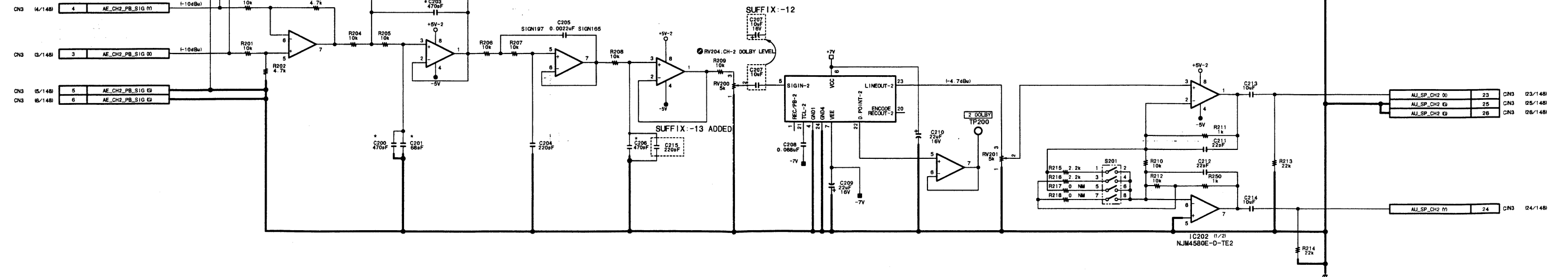
SUFFIX:-12 ONLY

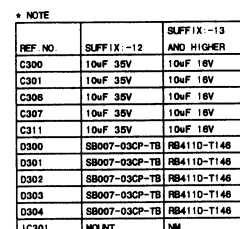
CN1 (1/3)	1	AE_CH1_PB_SIG 00
CN1 (2/3)	2	AE_CH1_PB_SIG M
CN1 (3/3)	3	AE_CH1_PB_SIG IG



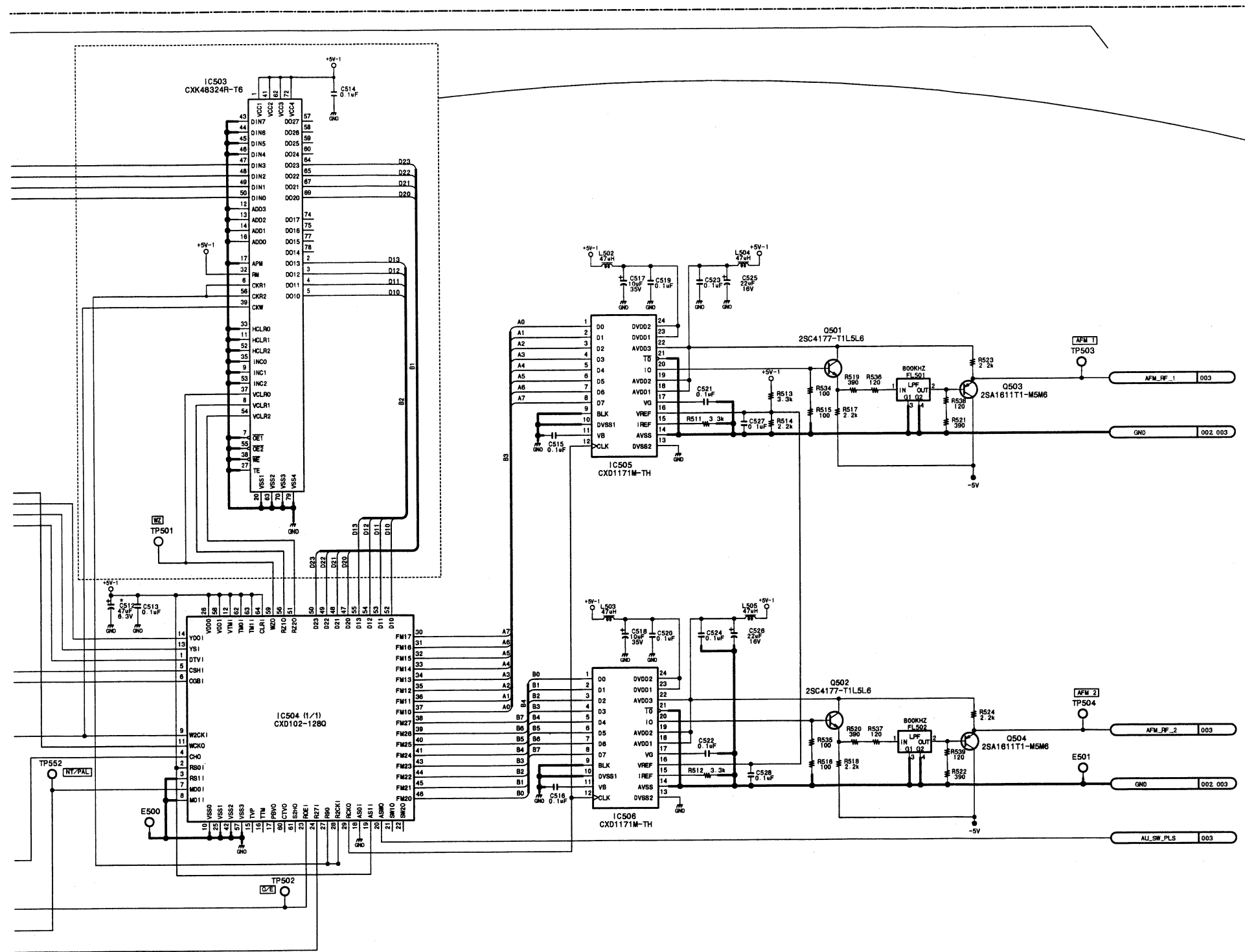
SUFFIX:-12 ONLY

CN4 (1/4)	1	AE_CH2_PB_SIG 00
CN4 (2/4)	2	AE_CH2_PB_SIG M
CN4 (3/4)	3	AE_CH2_PB_SIG IG
CN4 (4/4)	4	



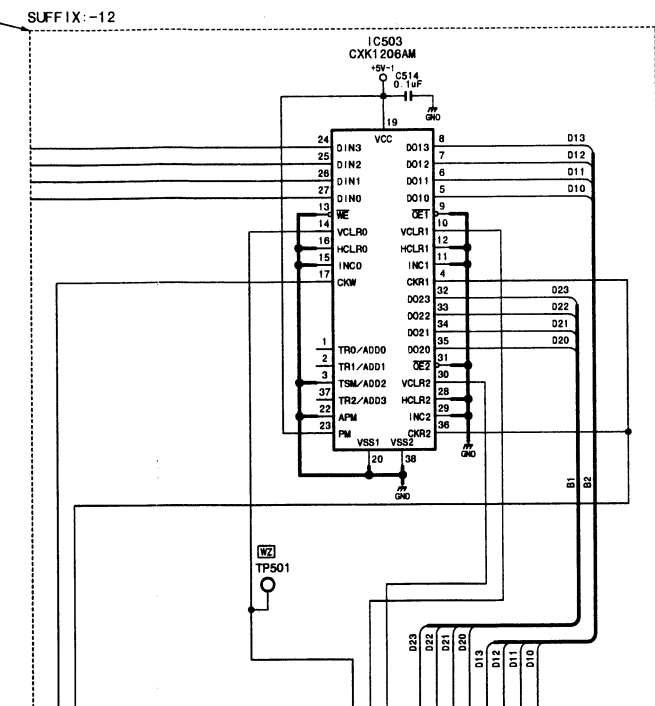


MSW-A2000_AU-272_009_1



* NOTE

REF. NO.	SUFFIX -12	SUFFIX -13 AND HIGHER
C512	10uF 35V	47uF 6.3V



Analog BETACAM audio (LAU and AFM) PB circuit

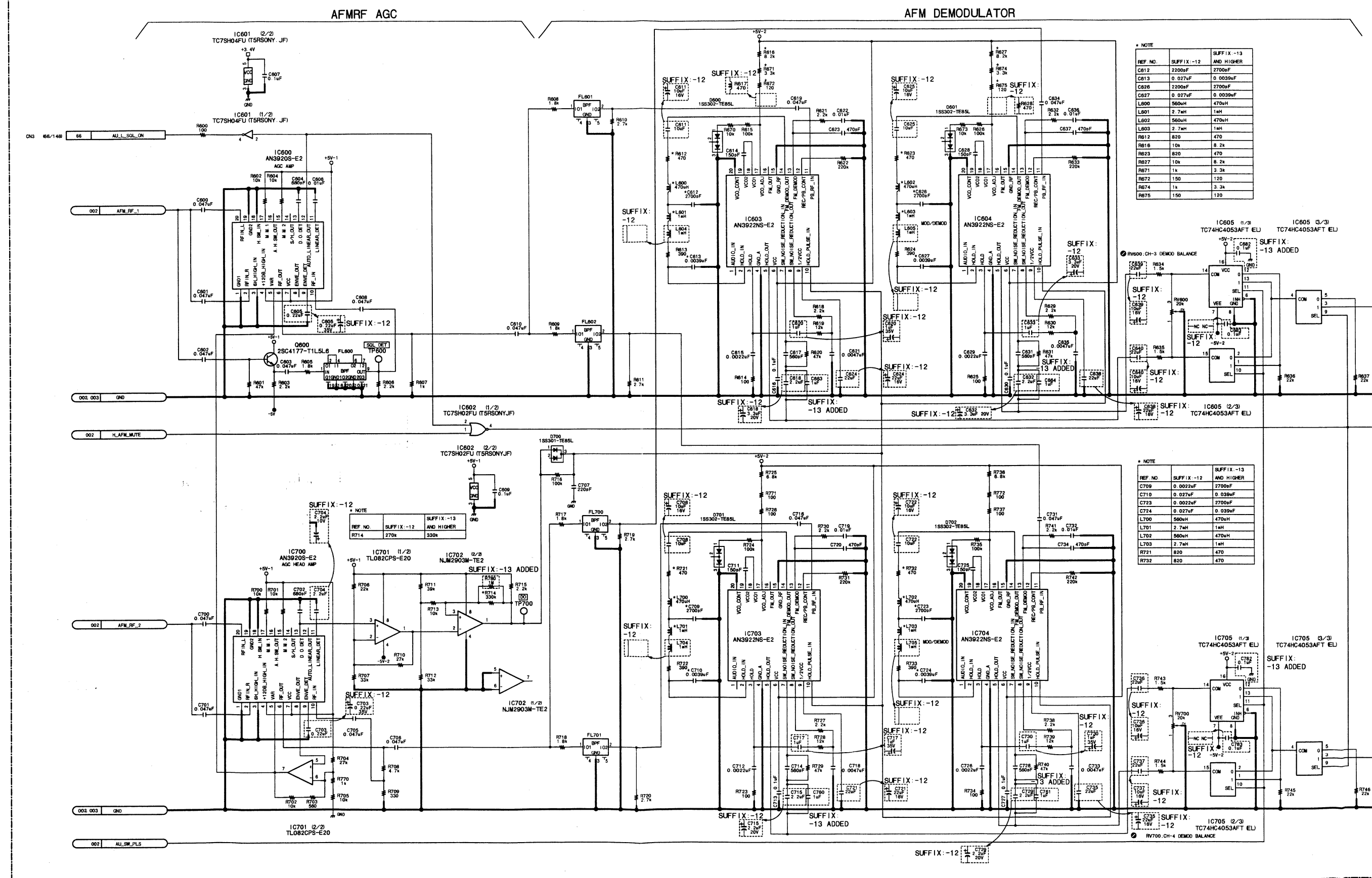
AU-272 (2/3)

BOARD NO. 1-677-288-12, 13

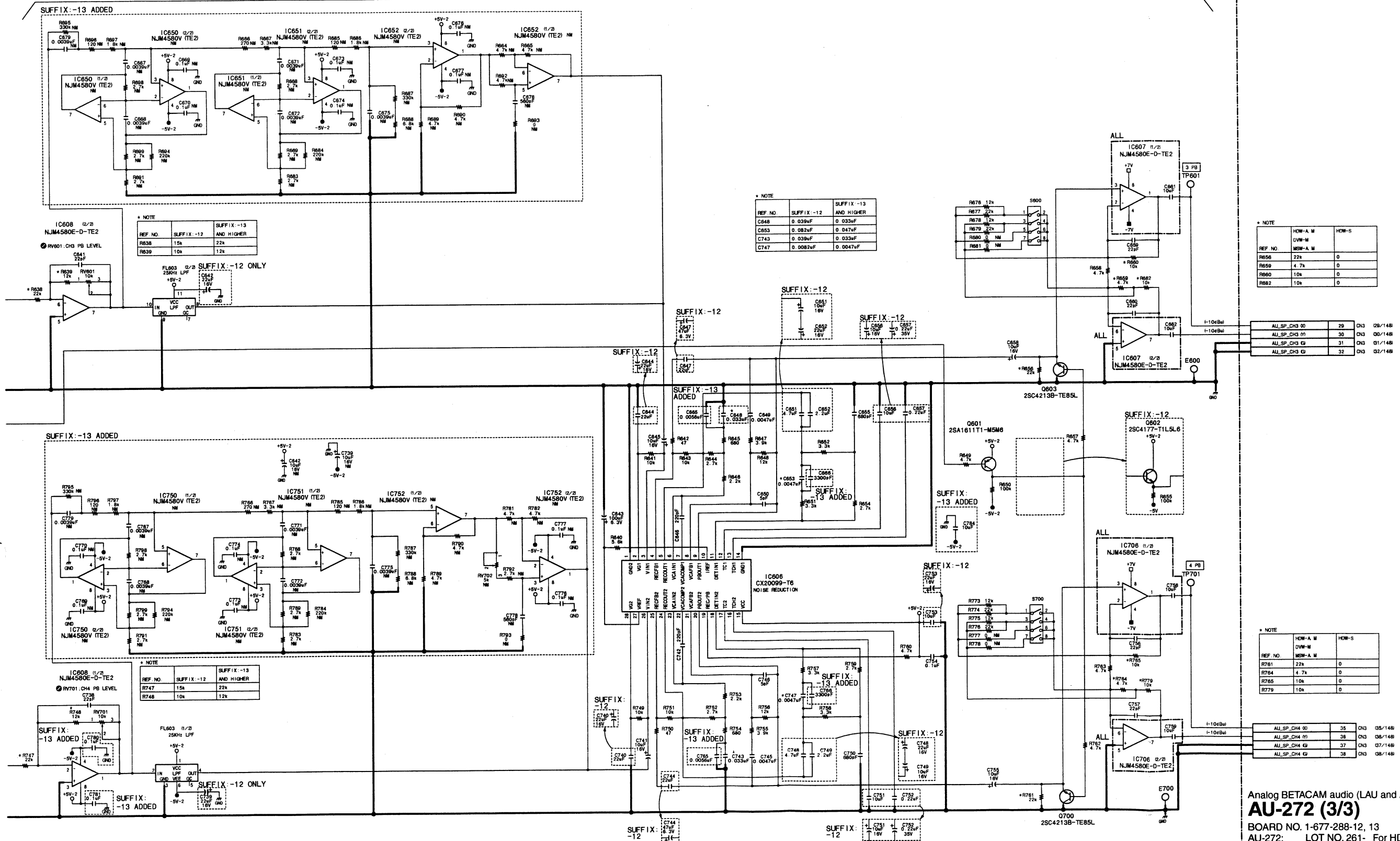
AU-272: LOT NO. 261- For HDW-M2000/P, M2100/P, A2100
 LOT NO. 434- For DVW-M2000/P
 LOT NO. 261- For MSW-M2000/P, A2000/P, M2100/P
 LOT NO. 491- For MSW-M2000E/P, M2100E/P

AU-272HS: LOT NO. 462- For HDW-S2000/P
 MSW-A2000_AU-272_009_2

HDW-A M
DVW-M
MSW-A M

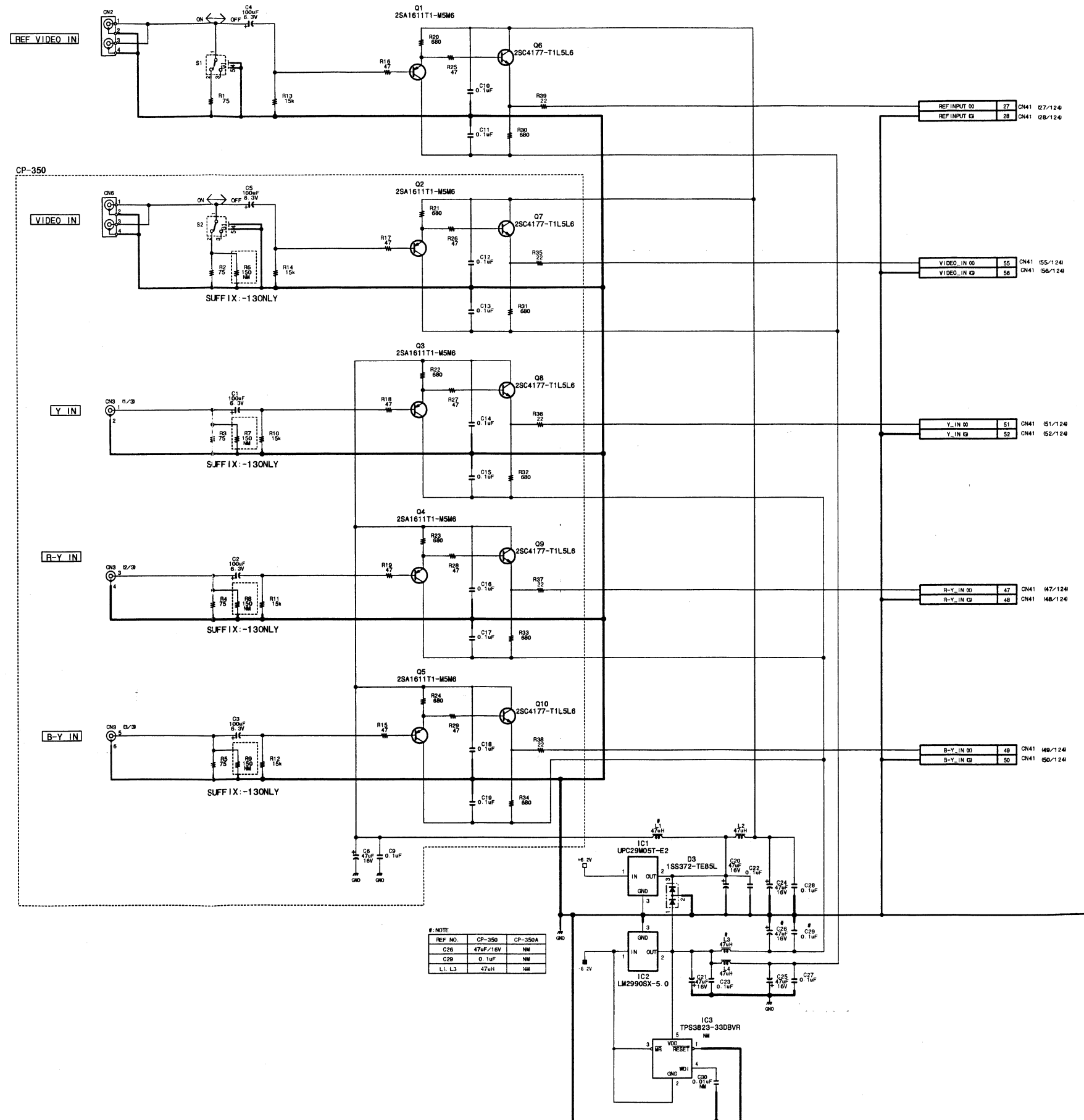


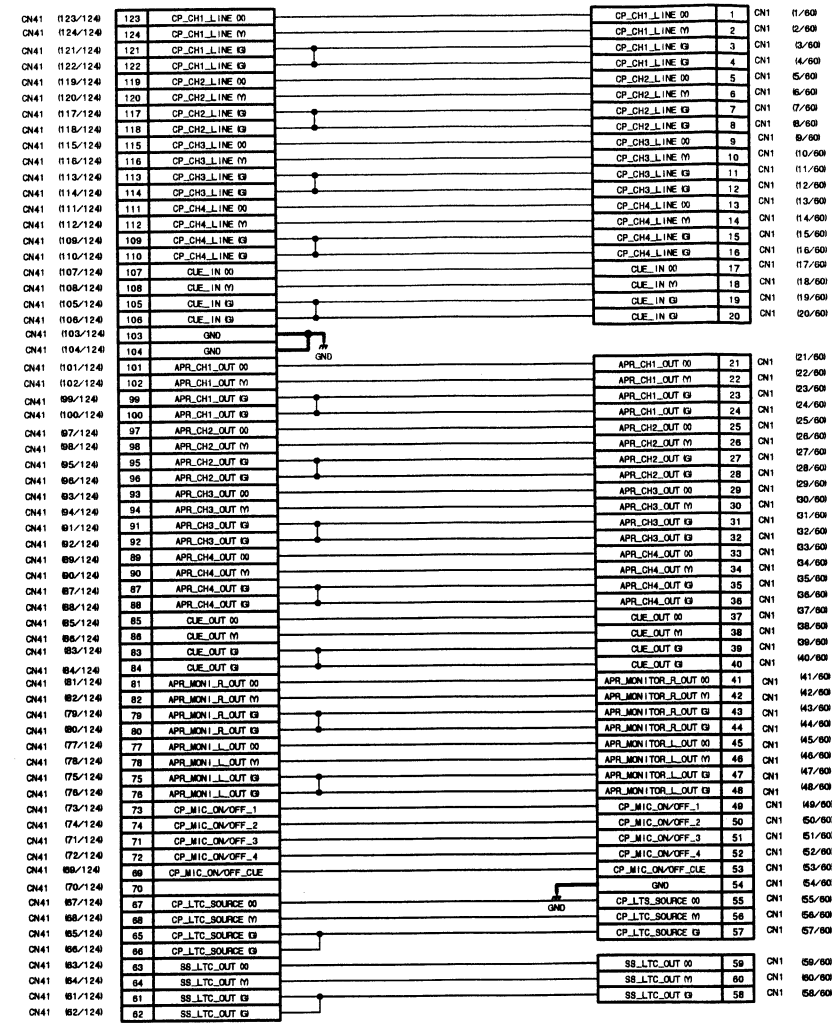
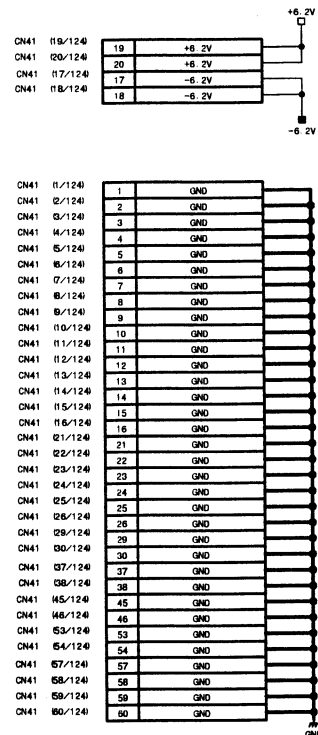
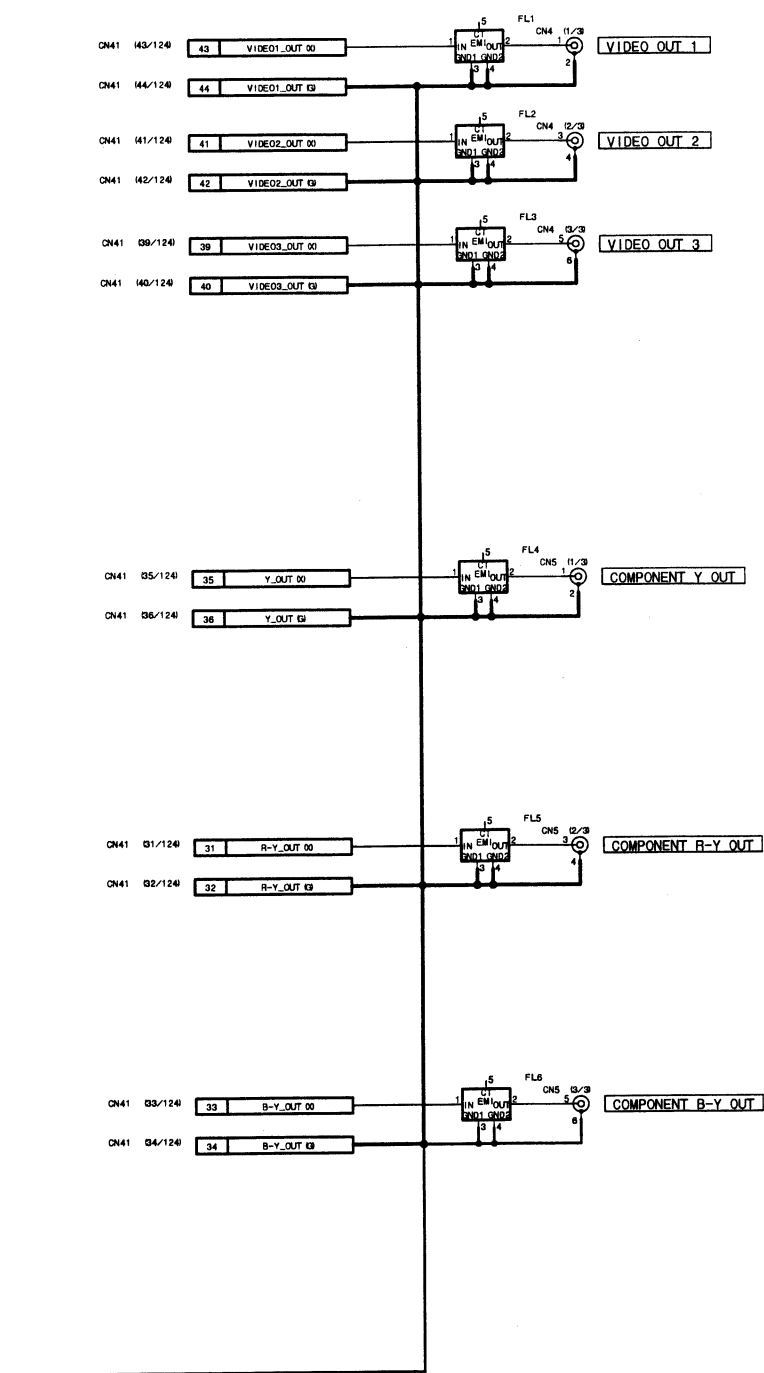
AFM EXPAND



Analog BETACAM audio (LAU and AFM) PB circuit
AU-272 (3/3)

BOARD NO. 1-677-288-12, 13
 AU-272: LOT NO. 261- For HDW-M200CP, M2100/P, A2100
 LOT NO. 434- For DFW-M200CP
 LOT NO. 261- For MSW-M200CP, A2000/P, M2100/P
 LOT NO. 491- For MSW-M200CE/P, M2100E/P
 AU-272HS: LOT NO. 462- For HDW-S2000P
 MSW-A2000 AU-272_009_3





Connector board (Analog video)

CP-350

BOARD NO. 1-677-275-13, 14

CP-350A: LOT NO. 261- For HDW-2000, M2000/P, M21C/P, A2100

LOT NO. 4C2- For MSW-M2100/P

LOT NO. 462- For HDW-D2000

CP-350: LOT NO. 434- For HDW-S2000/P

LOT NO. 261- For DWW-2000/P, M2000/P

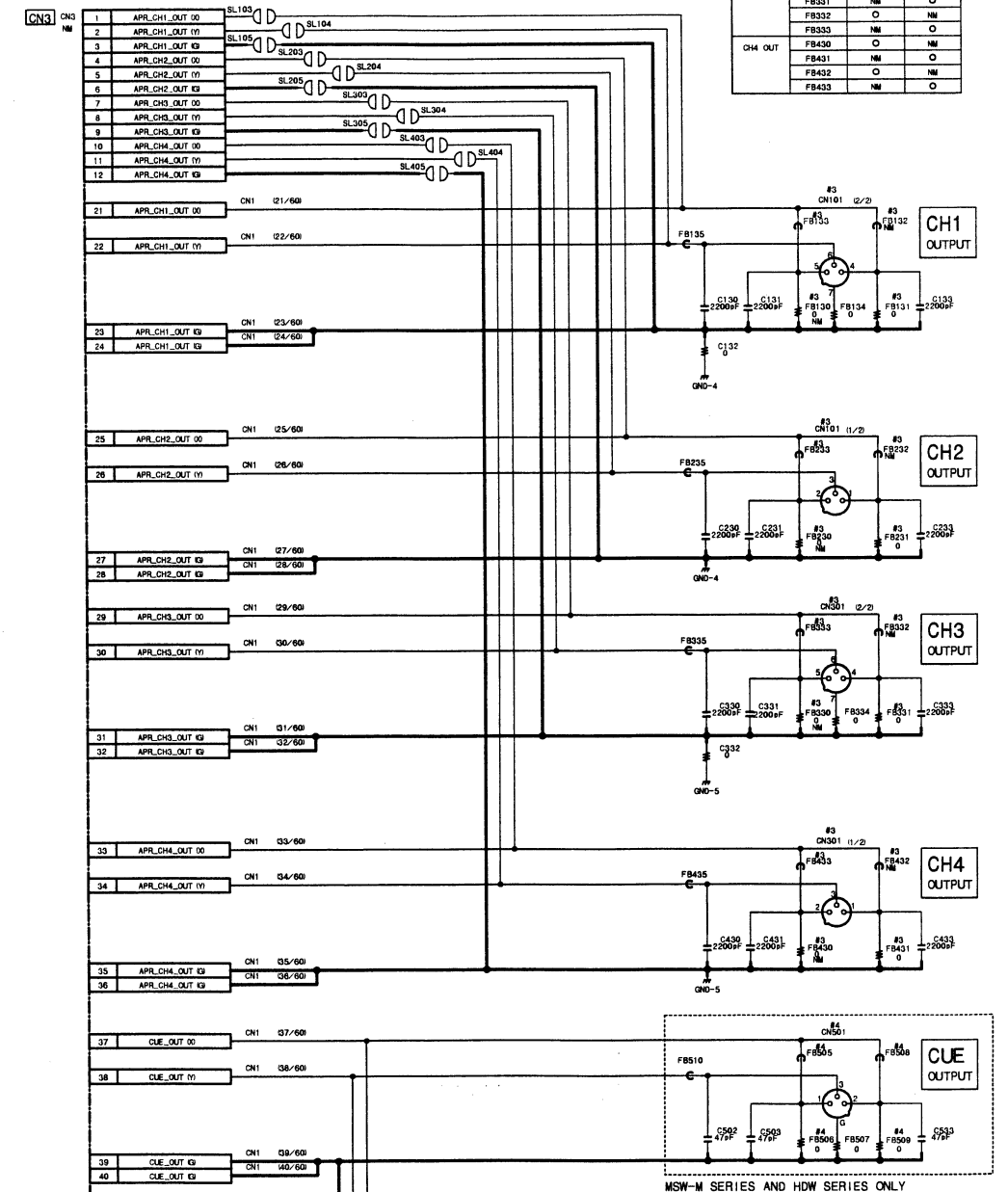
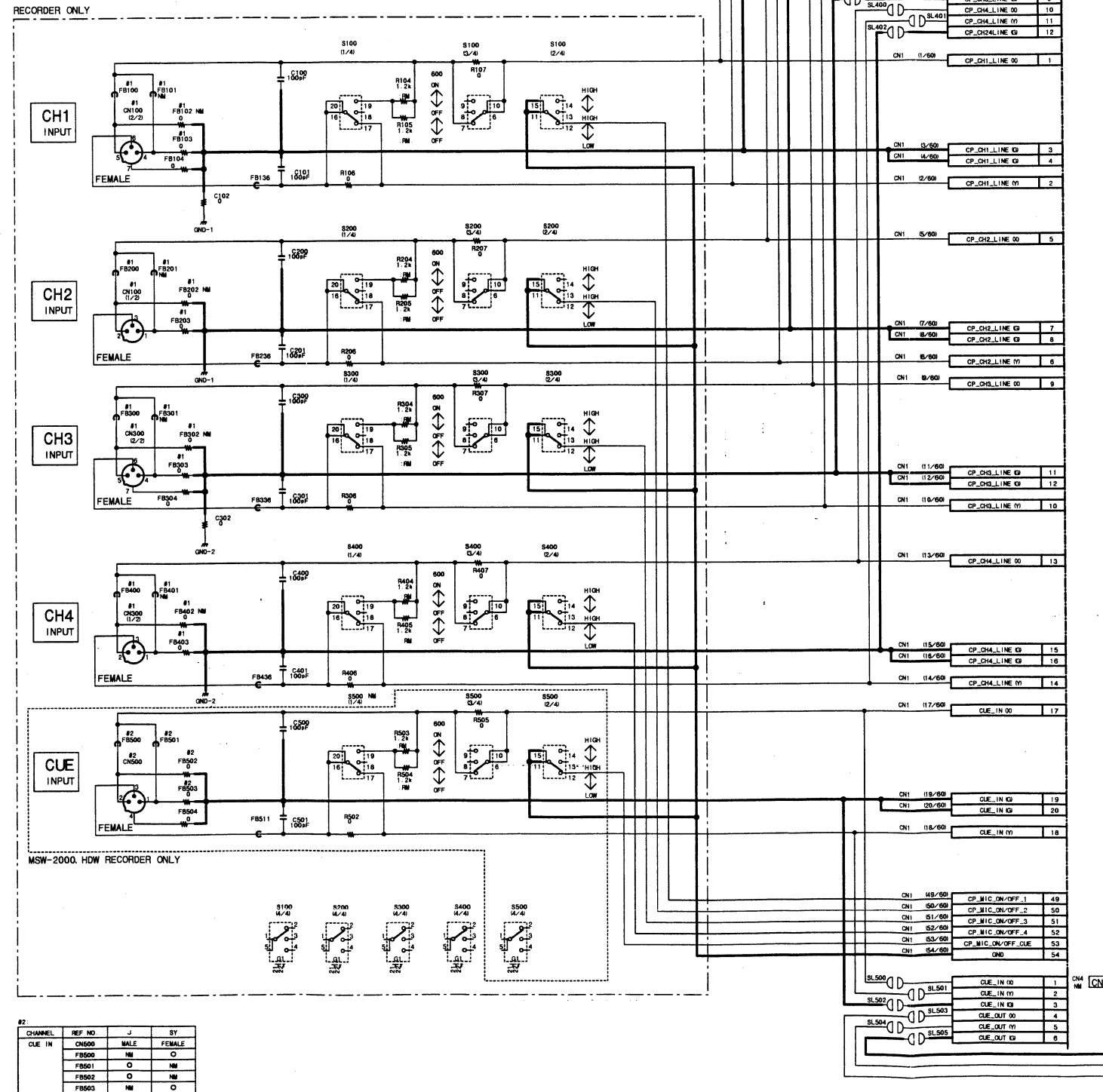
LOT NO. 261- For MSW-2000, M2000/P, A20C/P

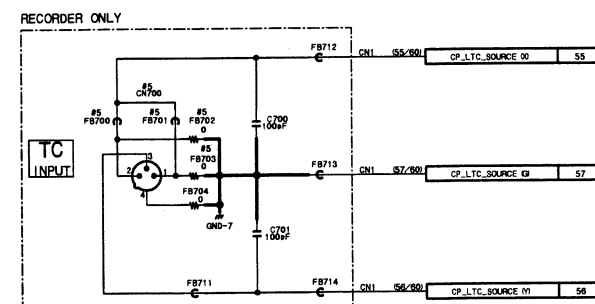
LOT NO. 491- For MSW-M2000E/P, M2100E/P

MSW-A2000_CP-350_008_1

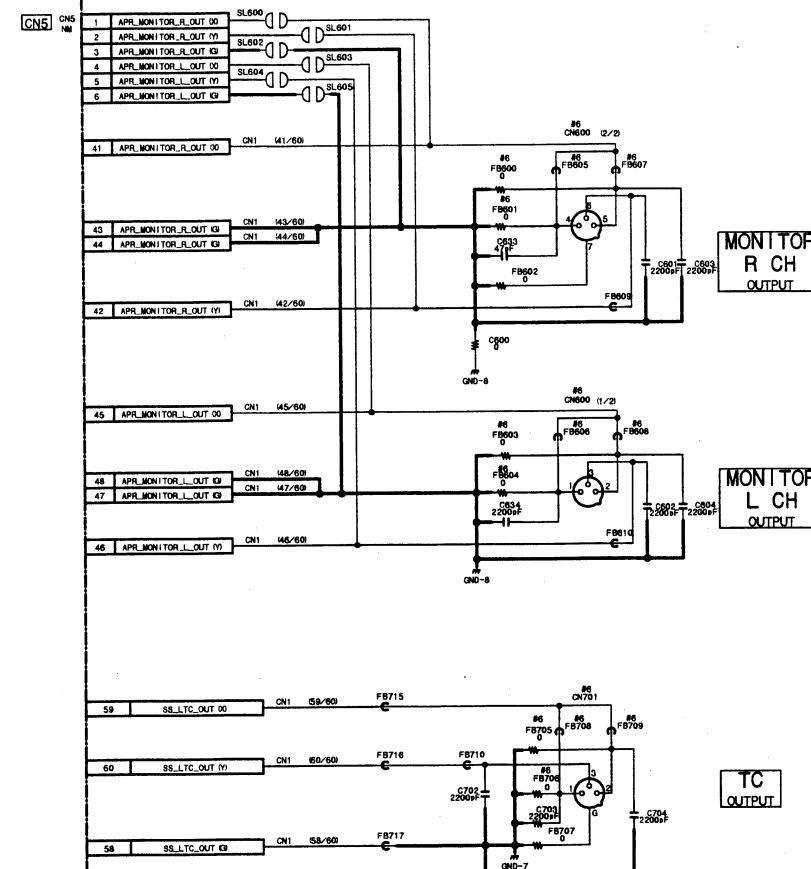
#1	CHANNEL	REF. NO.	J	SY
	CH1/CH2 IN	CH100	MALE	FEMALE
	CH3/CH4 IN	CH300	MALE	FEMALE
	CH1 IN	FB100	NI	O
		FB101	O	NI
		FB102	O	NI
		FB103	NI	O
	CH2 IN	FB200	NI	O
		FB201	O	NI
		FB202	O	NI
		FB203	NI	O
	CH3 IN	FB300	NI	O
		FB301	O	NI
		FB302	O	NI
		FB303	NI	O
	CH4 IN	FB400	NI	O
		FB401	O	NI
		FB402	O	NI
		FB403	NI	O

#3	CHANNEL	REF. NO.	J	SY
	CH1/CH2 OUT	CH101	FEMALE	MALE
	CH3/CH4 OUT	CH301	FEMALE	MALE
	CH1 OUT	FB130	O	NI
		FB131	NI	O
		FB132	O	NI
		FB133	NI	O
	CH2 OUT	FB230	O	NI
		FB231	NI	O
		FB232	O	NI
		FB233	NI	O
	CH3 OUT	FB330	O	NI
		FB331	NI	O
		FB332	O	NI
		FB333	NI	O
	CH4 OUT	FB430	O	NI
		FB431	NI	O
		FB432	O	NI
		FB433	NI	O





CHANNEL	REF. NO.	J	SY
TC IN	FB700	MALE	FEMALE
	FB701	O	NM
	FB702	O	NM
	FB703	NM	O



CHANNEL	REF. NO.	J	SY
MONI L/R OUT	FB800	FEMALE	MALE
TC OUT	FB801	O	NM
MONI R OUT	FB802	O	NM
	FB803	O	NM
	FB804	NM	O
MONI L OUT	FB805	O	NM
	FB806	NM	O
TC OUT	FB807	O	NM
	FB808	NM	O
	FB809	O	NM

Connector board
(Analog audio, Monitor, Time code)
CP-351

BOARD NO. 1-677-276-13, 21

CP-351C/CJ: LOT NO. 261- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-2000

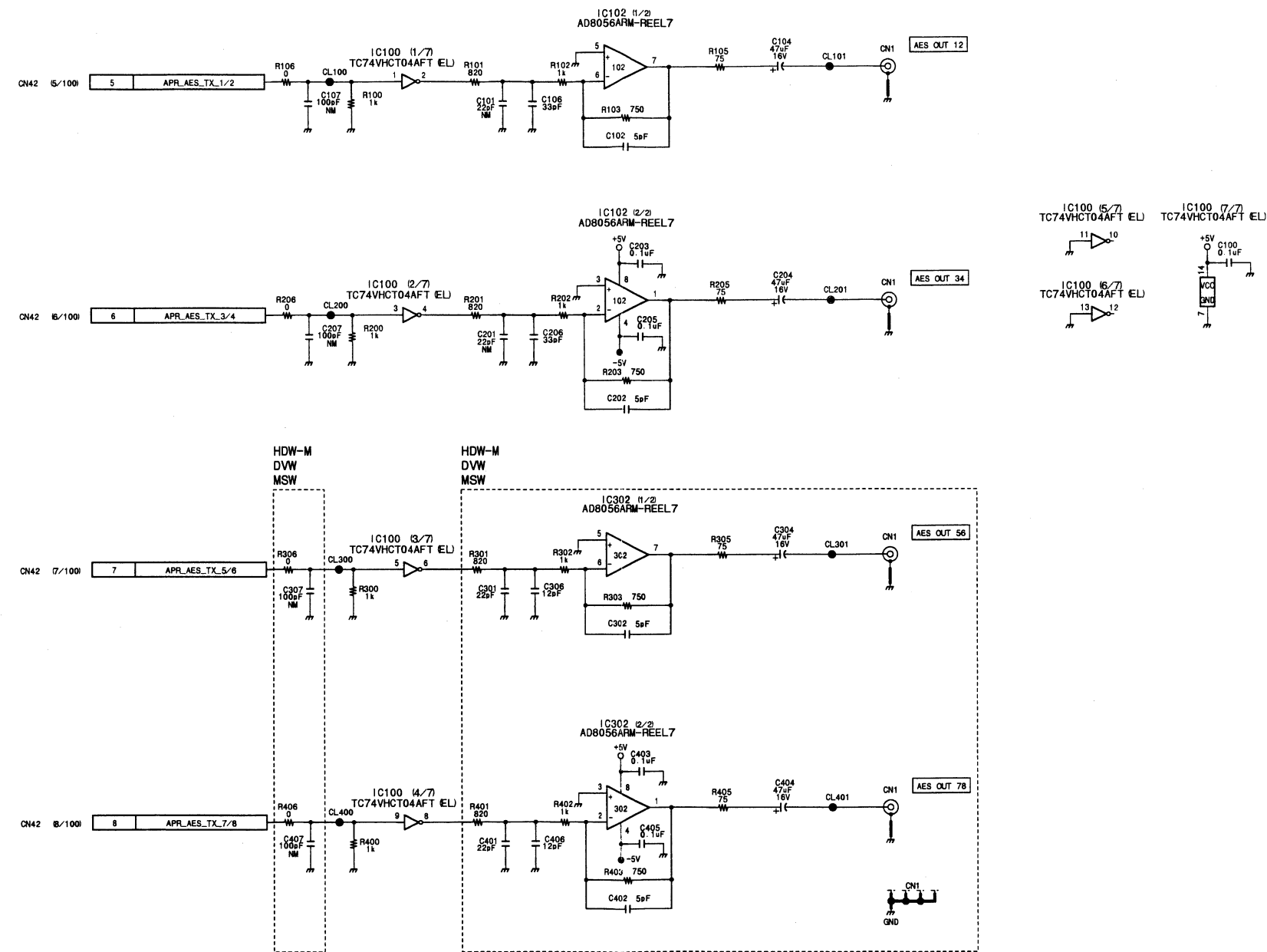
CP-351D/DJ: LOT NO. 261- For HDW-M2100/P, M2100
For MSW-M2100/P

CP-351B/BJ: LOT NO. 491- For MSW-M2100EP
LOT NO. 261- For MSW-M2000/P
LOT NO. 491- For MSW-M2000EP

CP-351/J: LOT NO. 261- For MSW-A2000/P

MSW-A2000_CP-351_012_1

CP-371 (1/3) CP-371 (1/3)

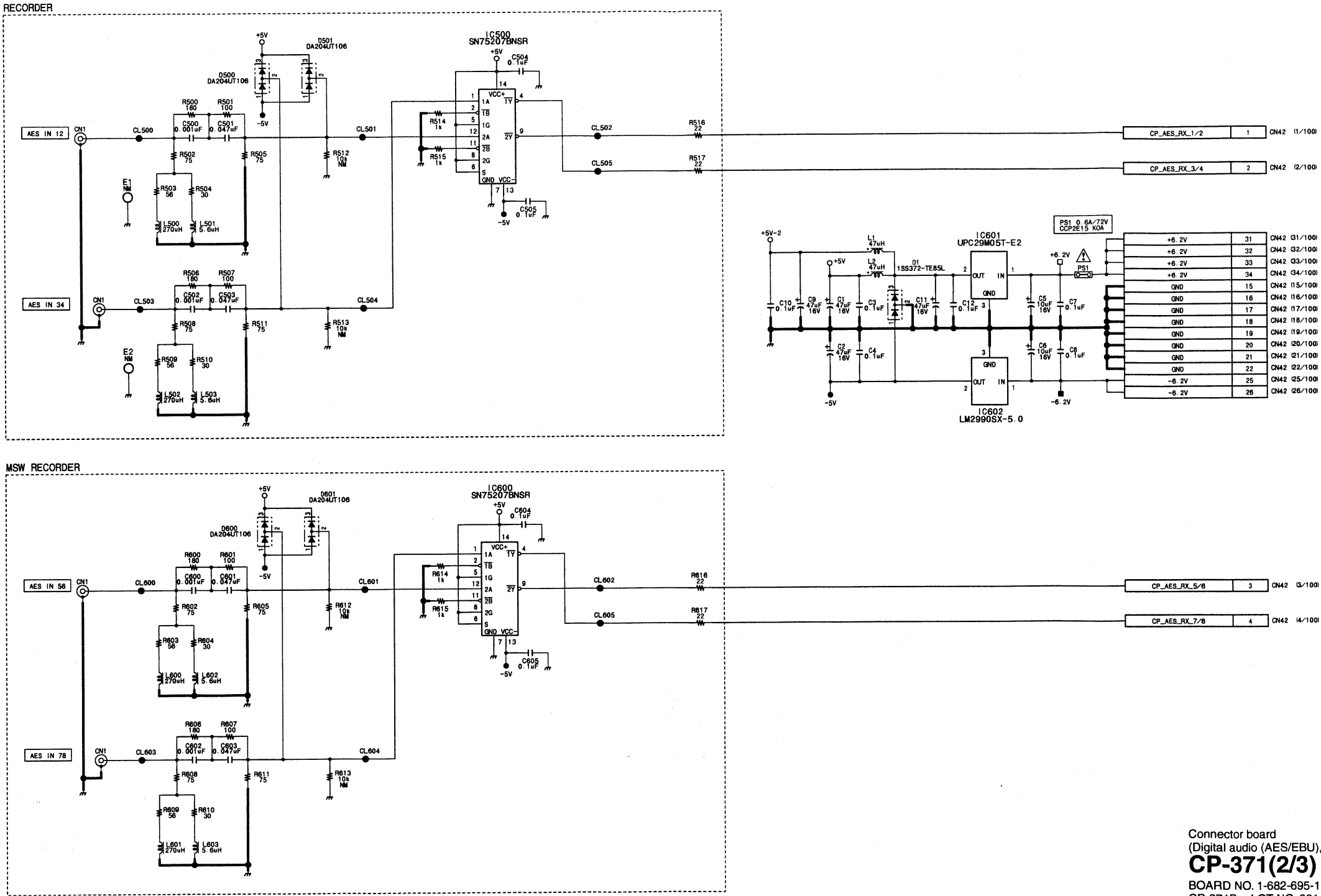


Connector board
(Digital audio (AES/EBU), remote control connectors)

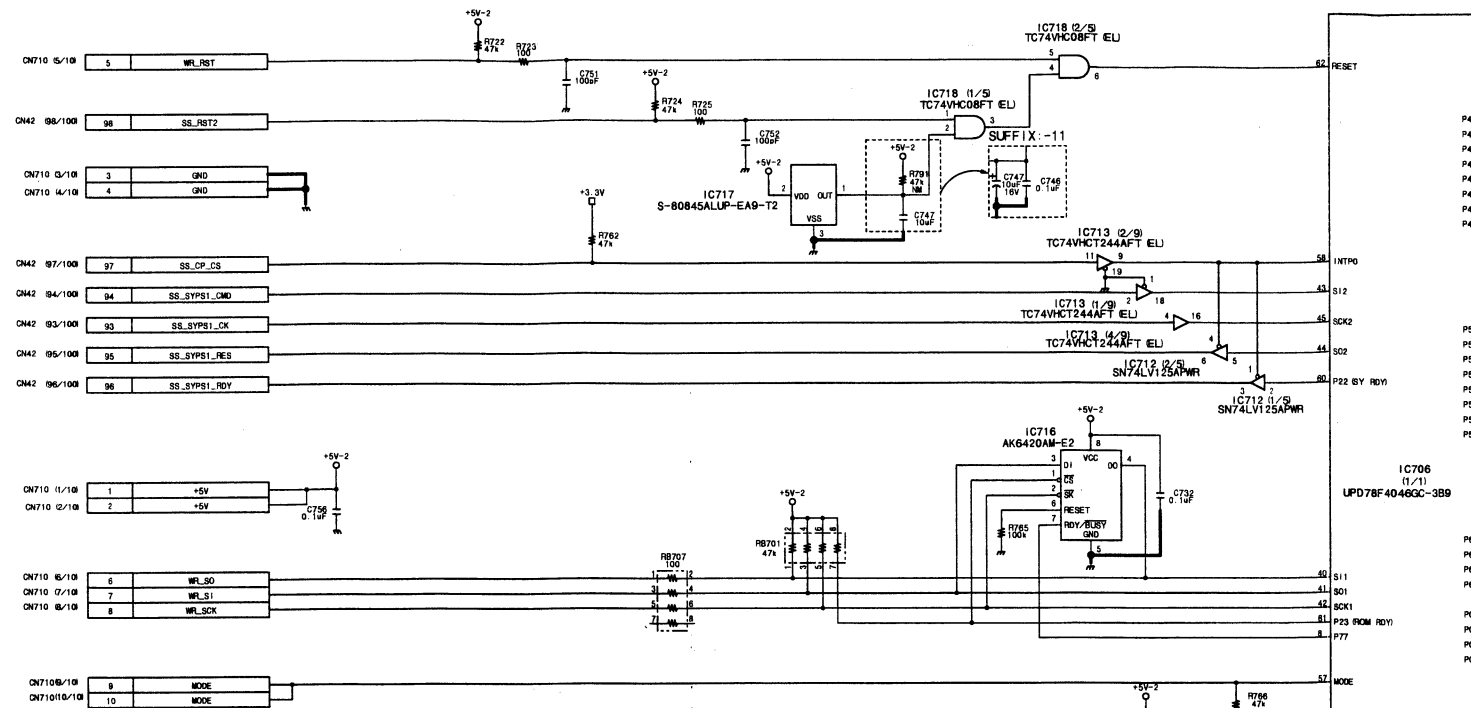
CP-371(1/3)

- BOARD NO. 1-682-695-11, 12
- CP-371B: LOT NO. 261- For HDW-2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P
- CP-371D: LOT NO. 4C2- For HDW-D2000
LOT NO. 261- For HDW-M2000/P
LOT NO. 434- For DVW-M2000/P
- CP-371A: LOT NO. 261- For HDW-M2100/P
For MSW-M2100/P
- CP-371C: LOT NO. 491- For MSW-M2100E/P
LOT NO. 261- For HDW-A2100
- CP-371: LOT NO. 261- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000E/P

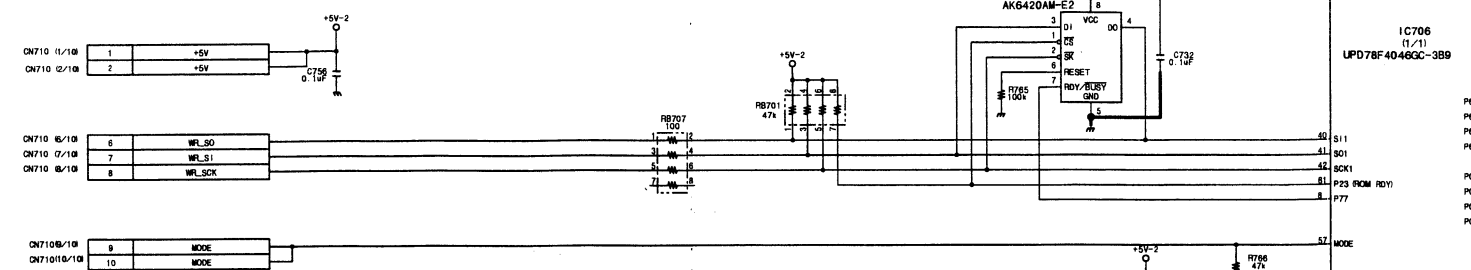
HDW series, DVW series, MSW series



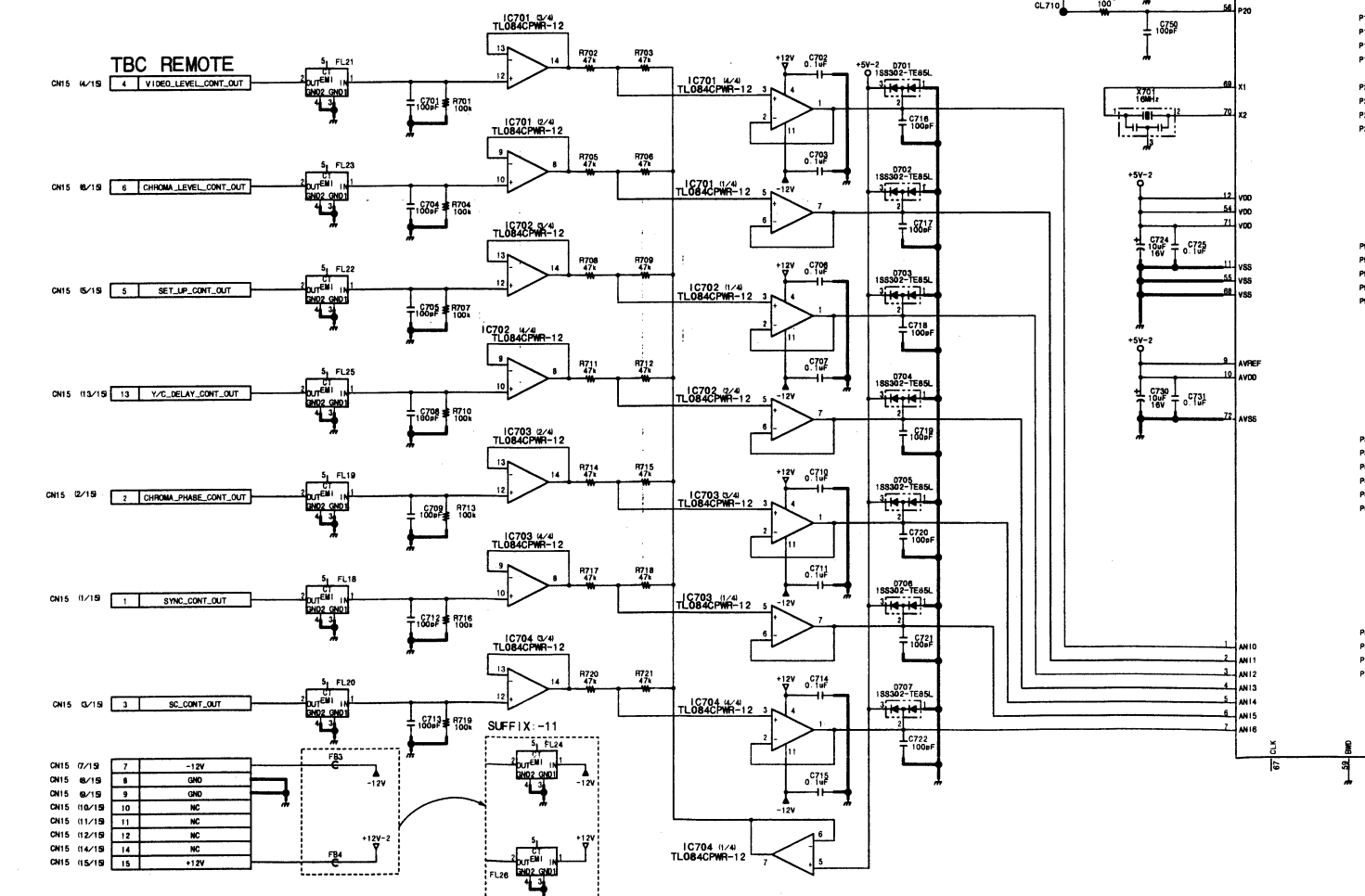
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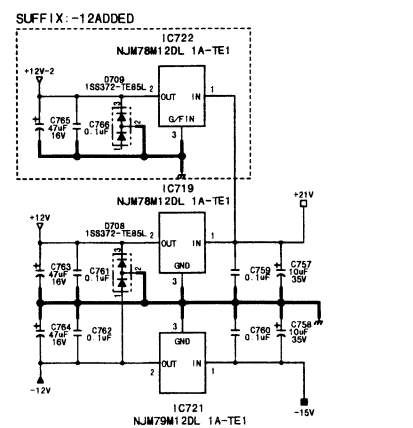
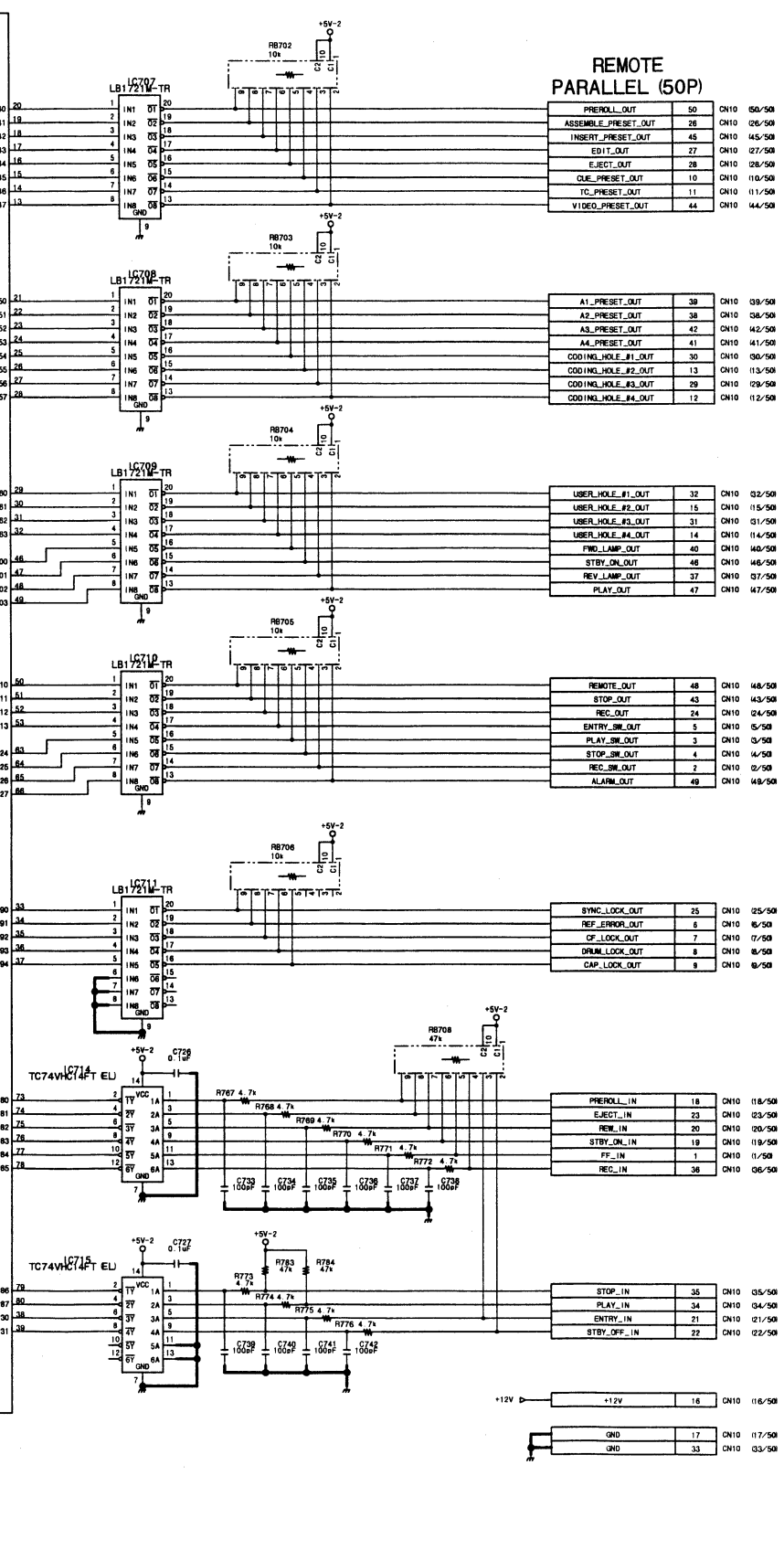
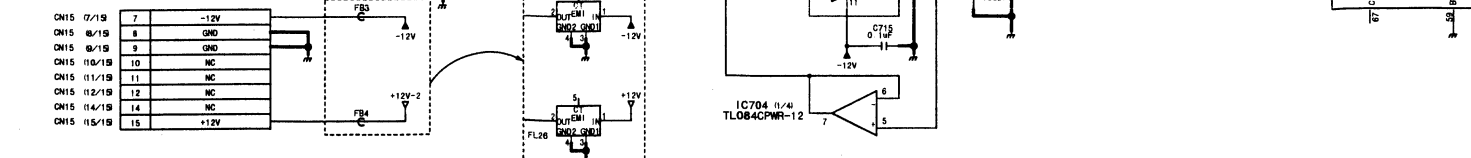
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3

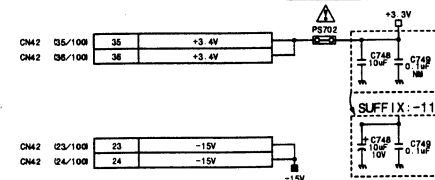


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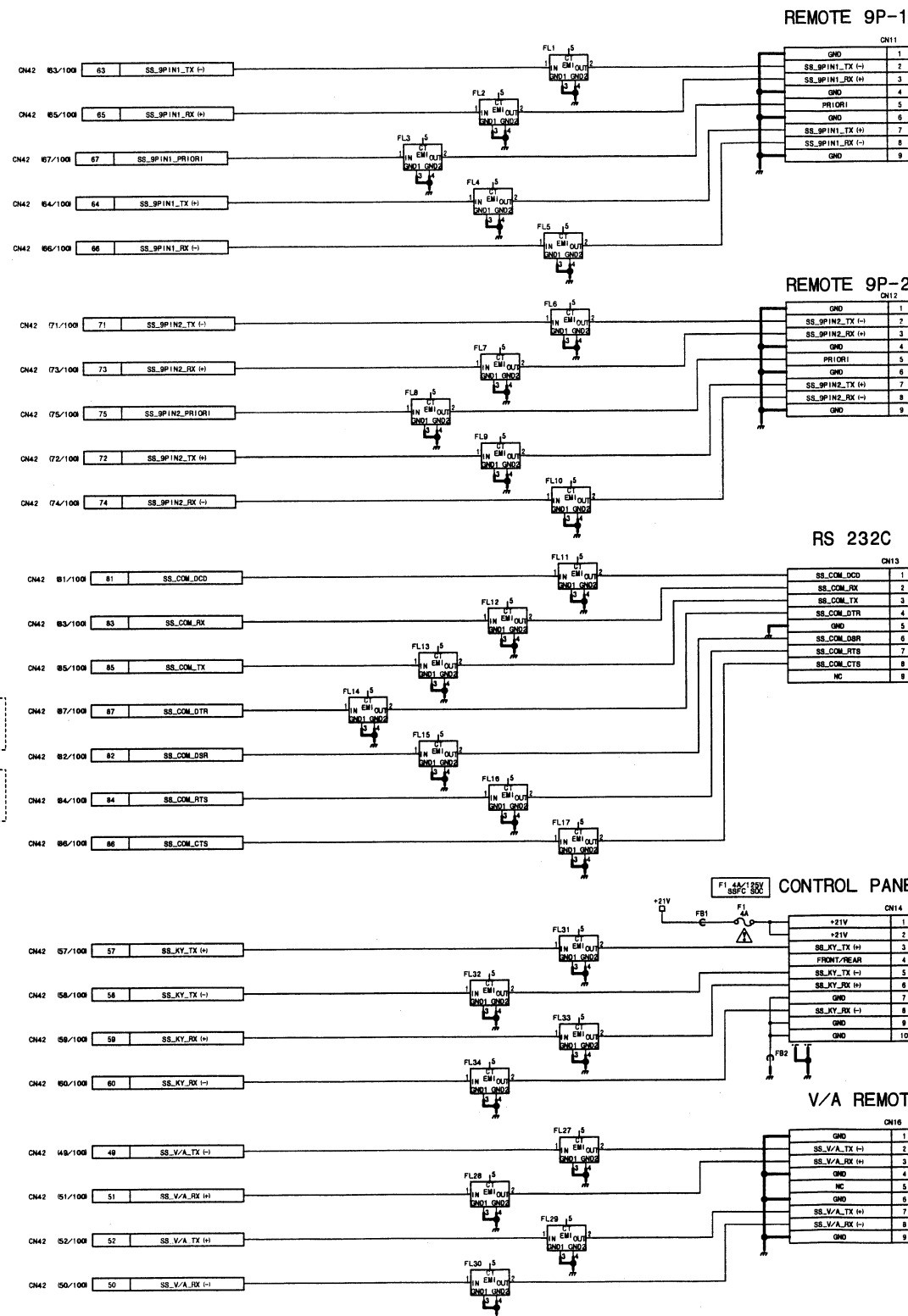


CH42	8/100	8	NC
CH42	10/100	10	NC
CH42	11/100	11	NC
CH42	12/100	12	NC
CH42	13/100	13	NC
CH42	14/100	14	NC
CH42	39/100	39	NC
CH42	40/100	40	NC
CH42	41/100	41	NC
CH42	42/100	42	NC
CH42	43/100	43	NC
CH42	44/100	44	NC
CH42	45/100	45	NC
CH42	46/100	46	NC
CH42	47/100	47	NC
CH42	48/100	48	NC
CH42	53/100	53	NC
CH42	54/100	54	NC
CH42	55/100	55	NC
CH42	56/100	56	NC
CH42	81/100	81	NC
CH42	82/100	82	NC
CH42	86/100	86	NC
CH42	89/100	89	NC
CH42	70/100	70	NC
CH42	75/100	75	NC
CH42	77/100	77	NC
CH42	78/100	78	NC
CH42	79/100	79	NC
CH42	80/100	80	NC
CH42	88/100	88	NC
CH42	89/100	89	NC
CH42	90/100	90	NC
CH42	91/100	91	NC
CH42	92/100	92	NC
CH42	95/100	95	NC
CH42	100/100	100	NC

CH42	37/100	37	+2.5V
CH42	38/100	38	+2.5V

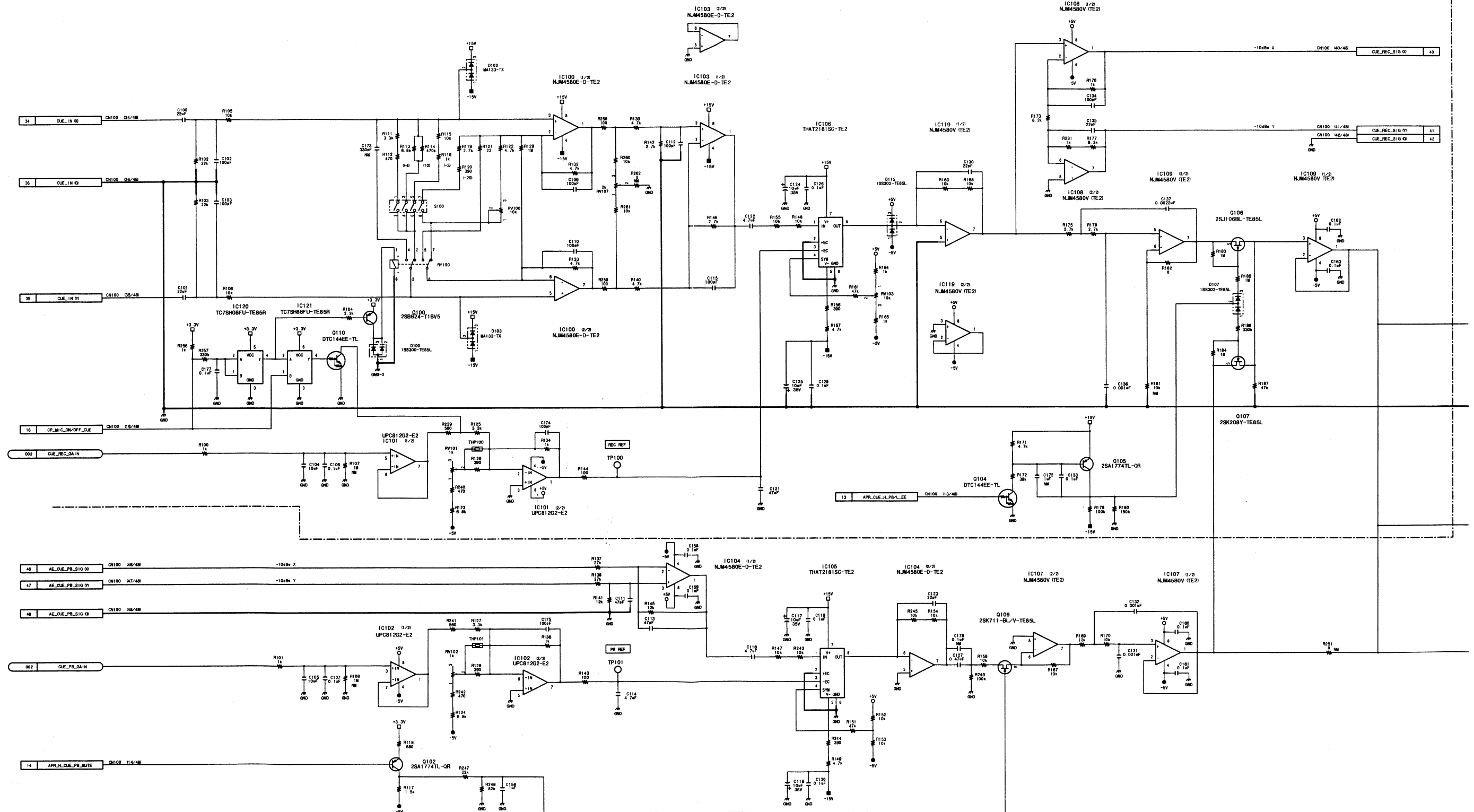


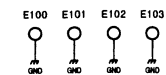
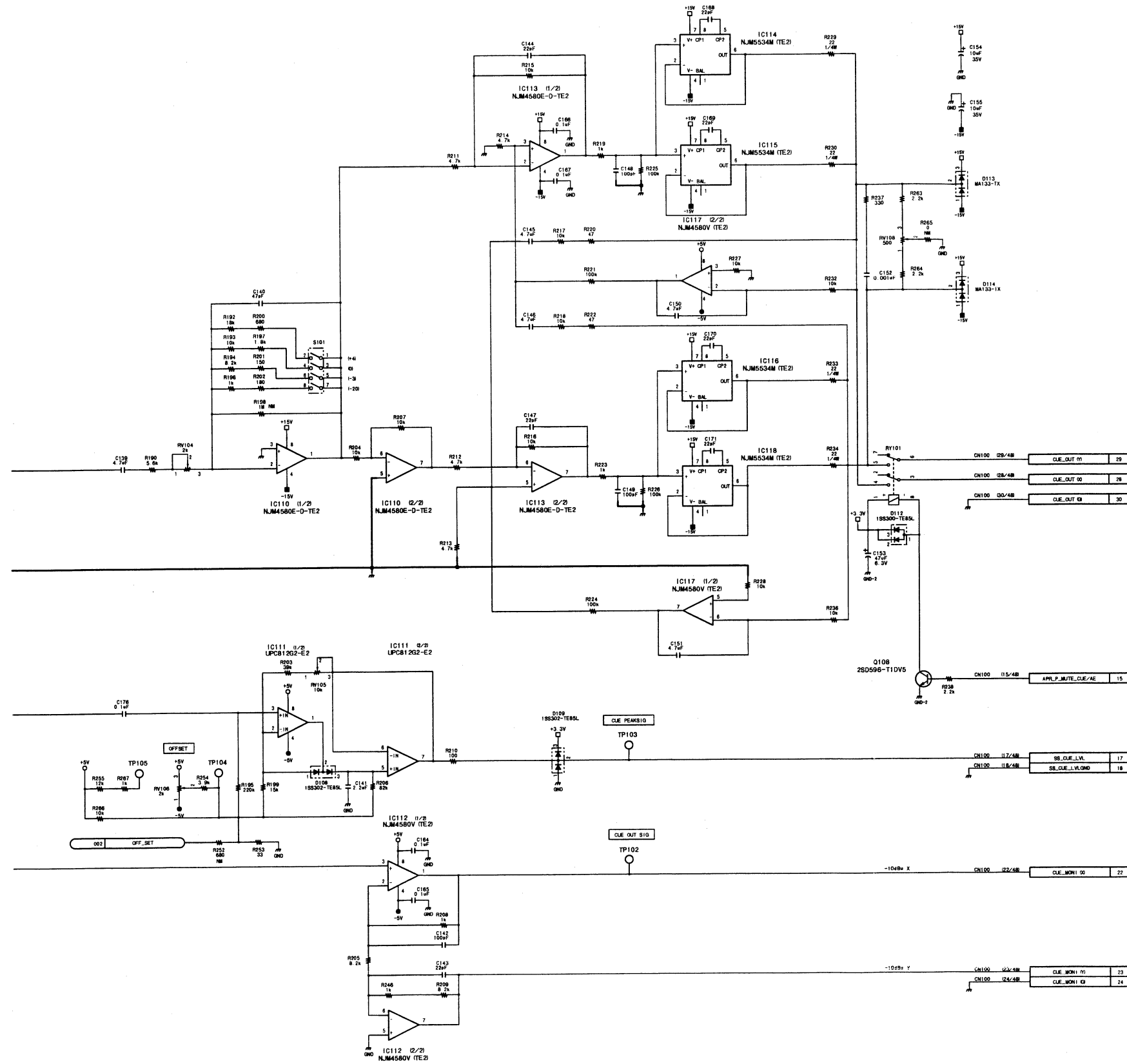
CH42	23/100	23	-15V
CH42	24/100	24	-15V
CH42	27/100	27	+21V
CH42	28/100	28	+21V
CH42	29/100	29	+21V
CH42	30/100	30	+21V



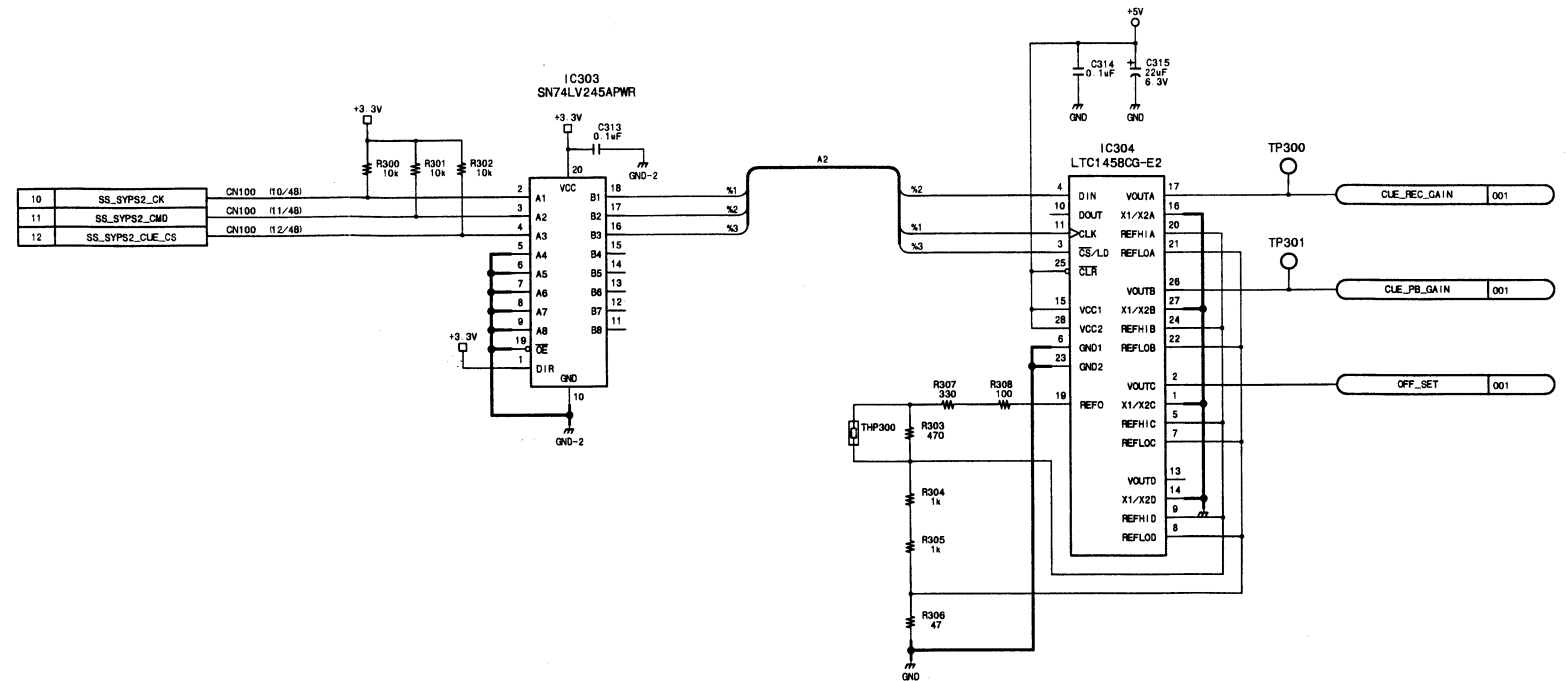
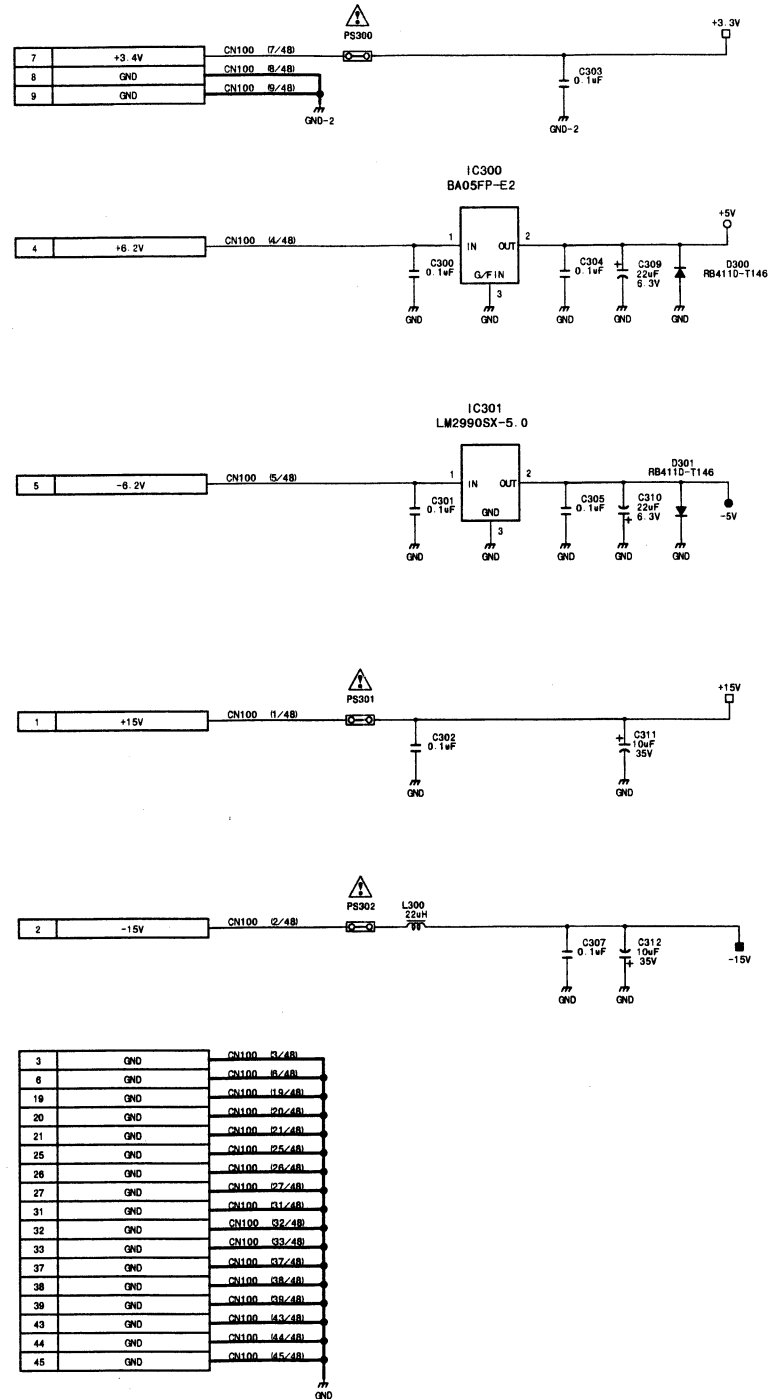
Connector board
(Digital audio (AES/EBU), remote control connector)
CP-371(3/3)

BOARD NO. 1-682-695-11, 12
CP-371B: LOT NO. 261- For HDW-2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P
CP-371D: LOT NO. 4C2- For HDW-D2000
LOT NO. 261- For HDW-M2000/P
LOT NO. 434- For DVW-M2000/P
CP-371A: LOT NO. 261- For HDW-M2100/P
For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P
CP-371C: LOT NO. 261- For HDW-A2100
CP-371: LOT NO. 261- For MSW-2000, M2000P, A2000/P
LOT NO. 491- For MSW-M2000E/P



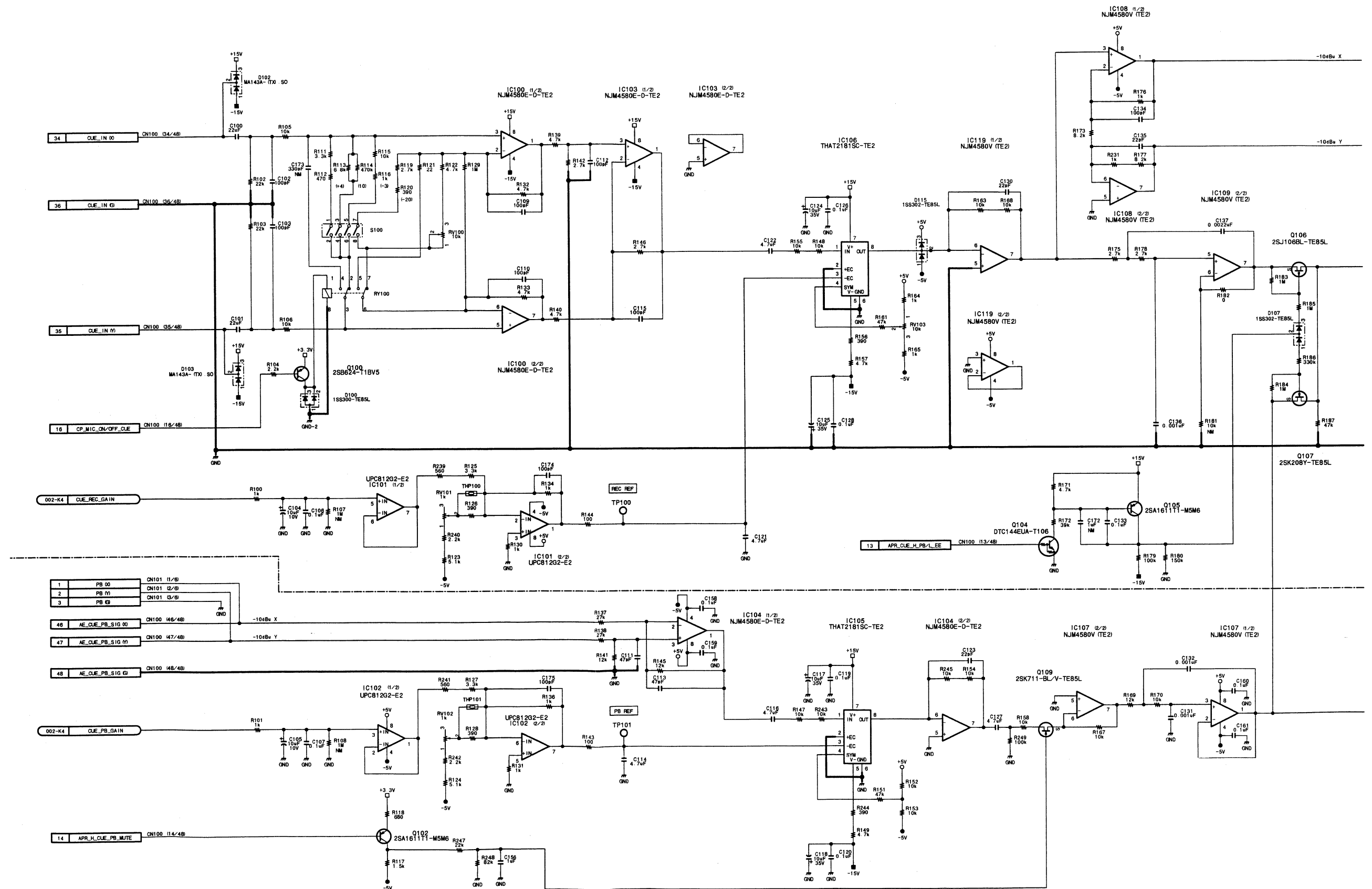


Cue REC/PB
CUE-13 (1/2)
BOARD NO. 1-679-889-12
LOT NO. 321- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 321- For MSW-M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
HDW-A2100_CUE-13_12F_1



Cue REC/PB
CUE-13 (2/2)
BOARD NO. 1-679-889-12
LOT NO. 321- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 321- For MSW-M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
HDW-A2100_CUE-13_12F_2

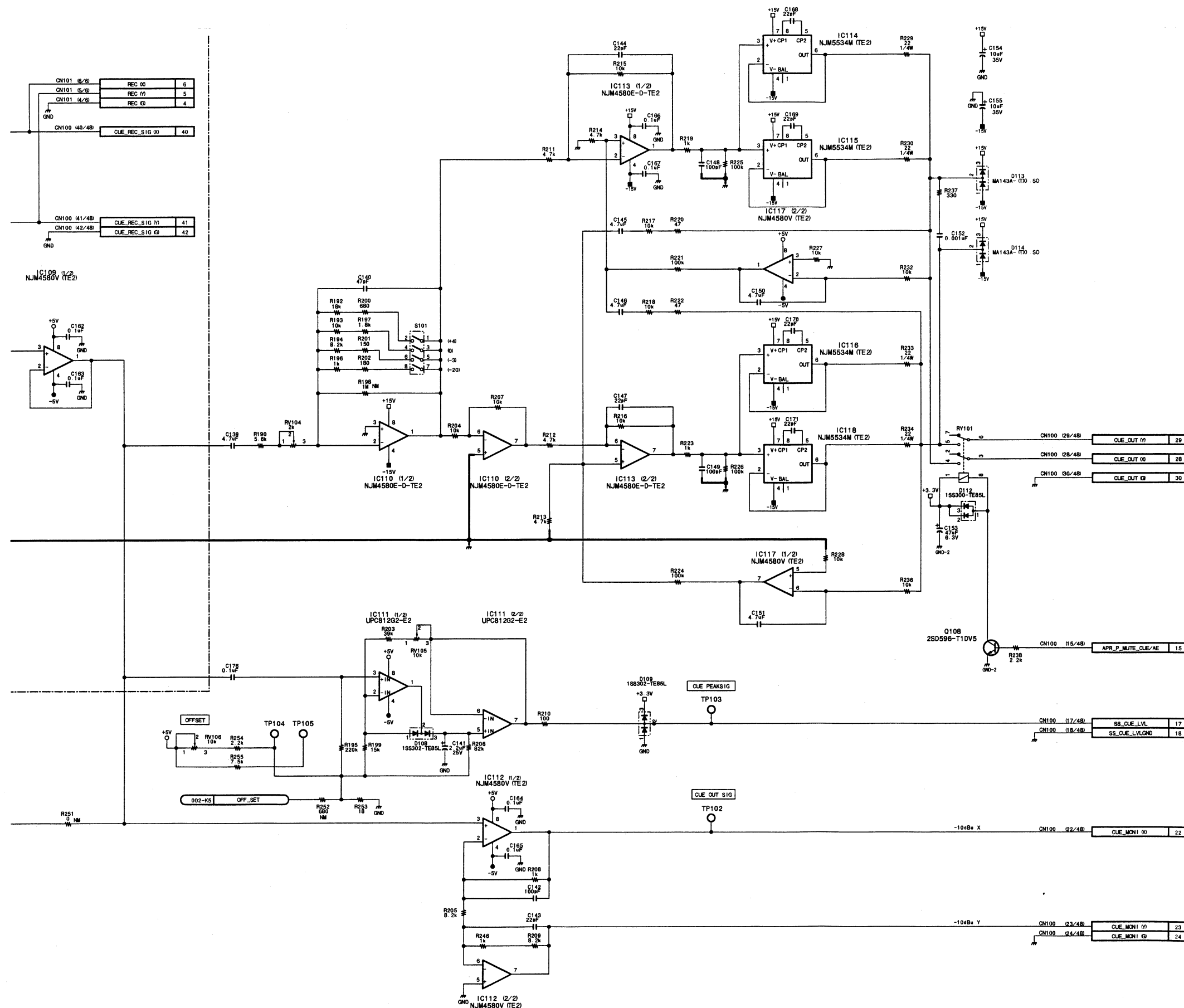




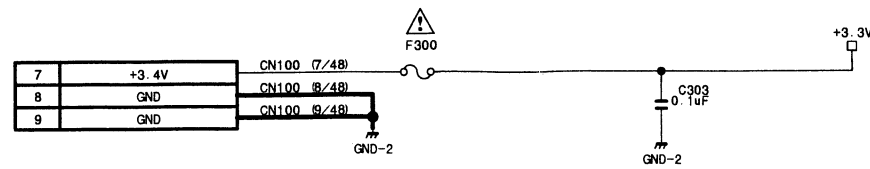
1-56 (a)

1-56 (a)

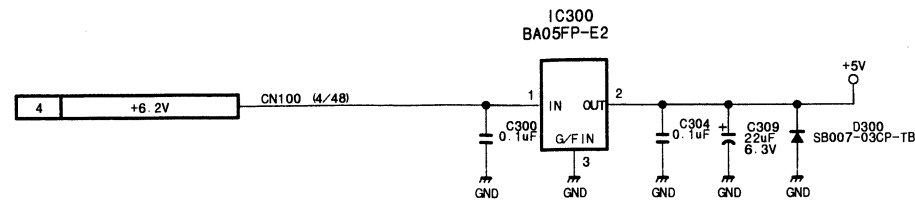
HDW series, DVW series, MSW series



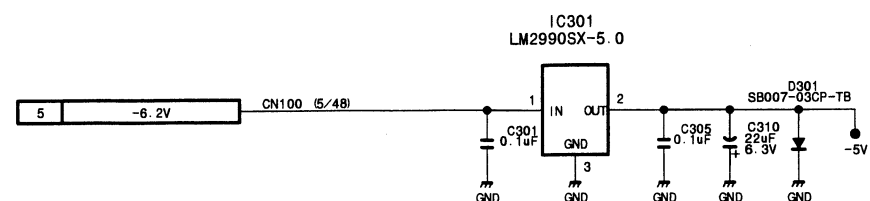
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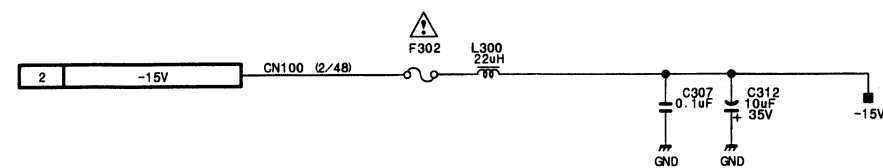
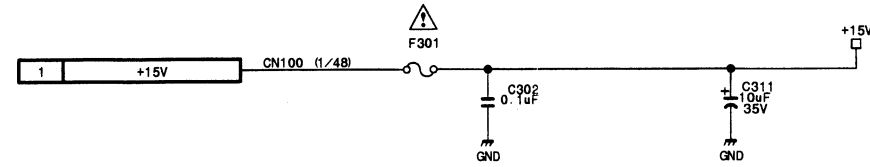
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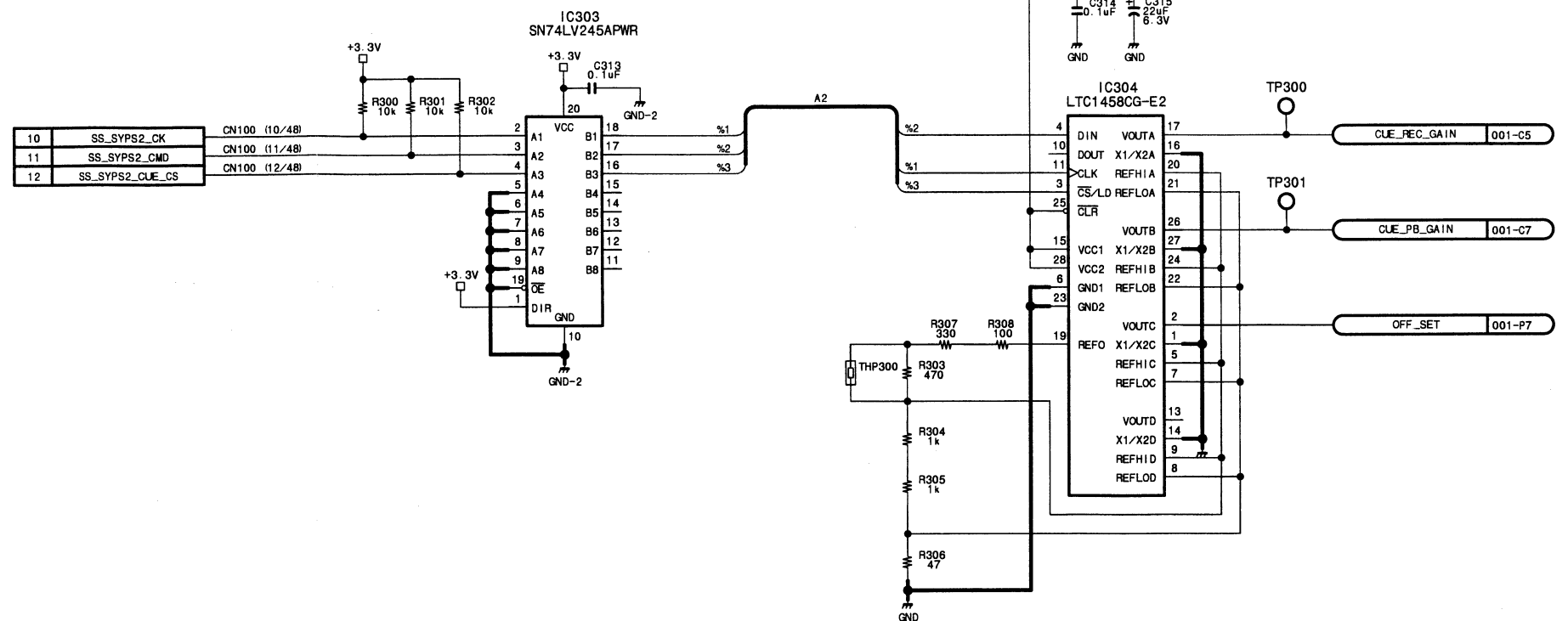
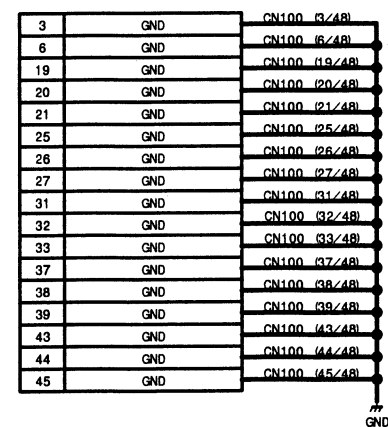
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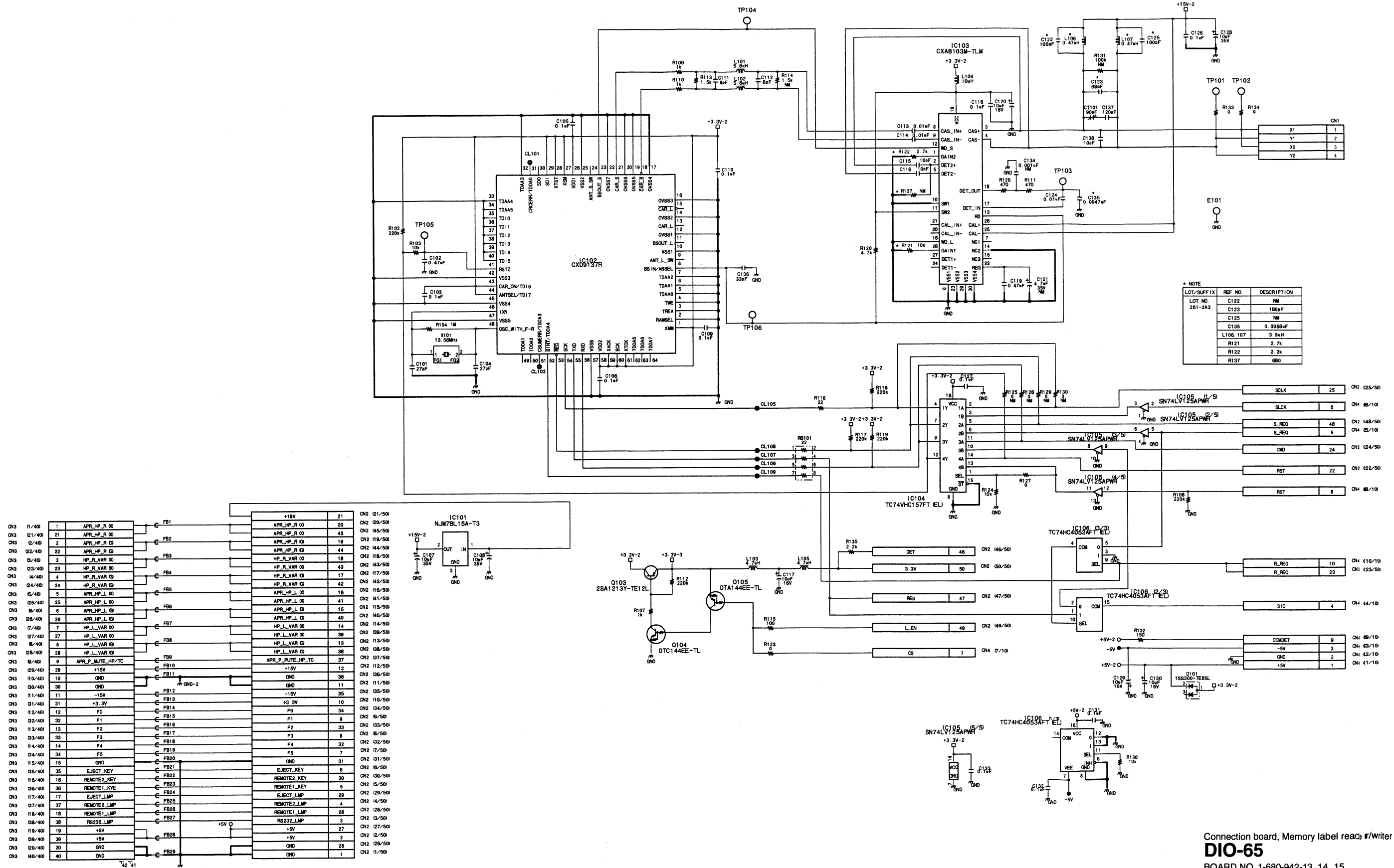
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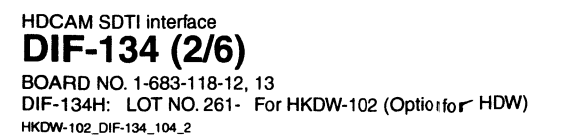
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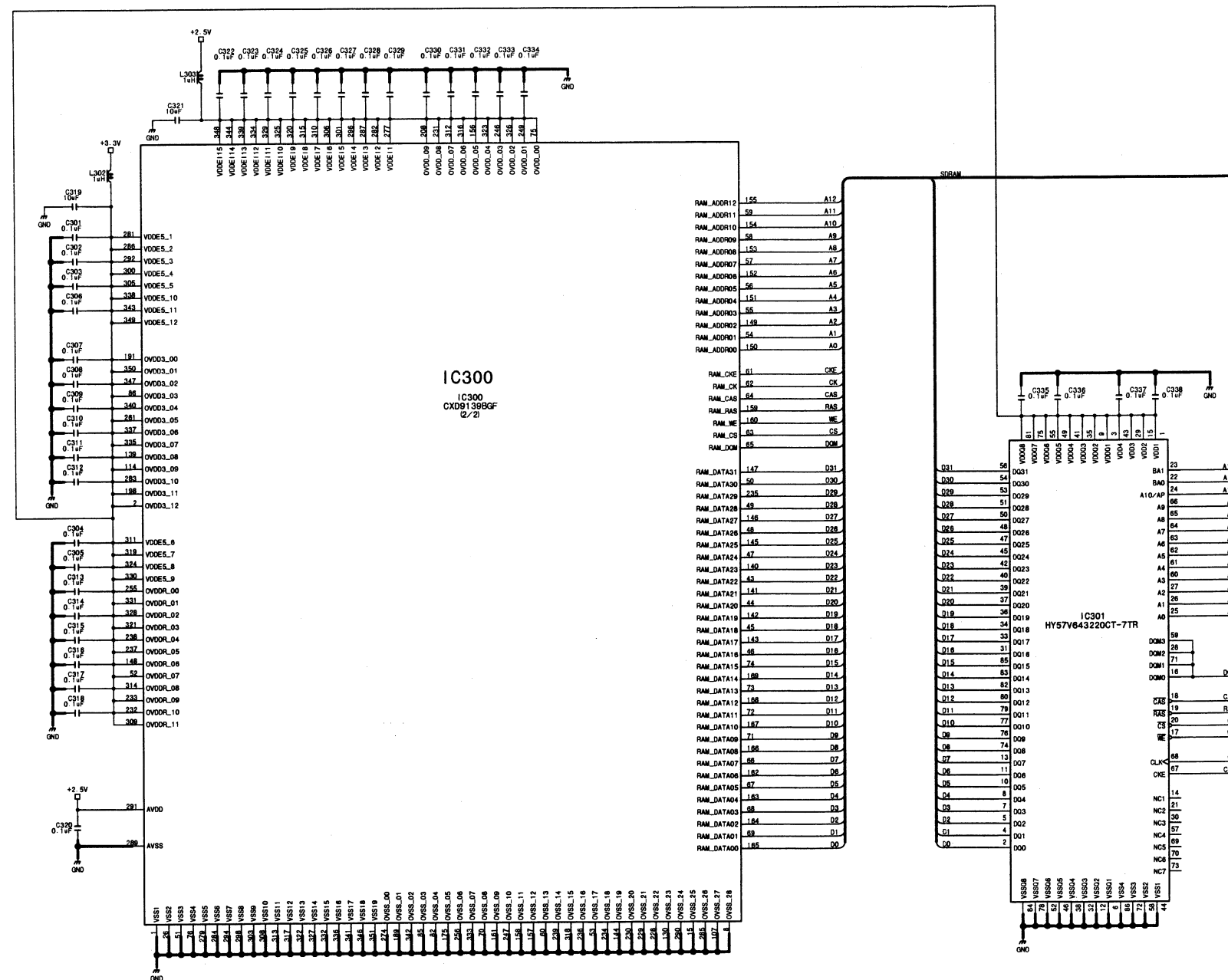


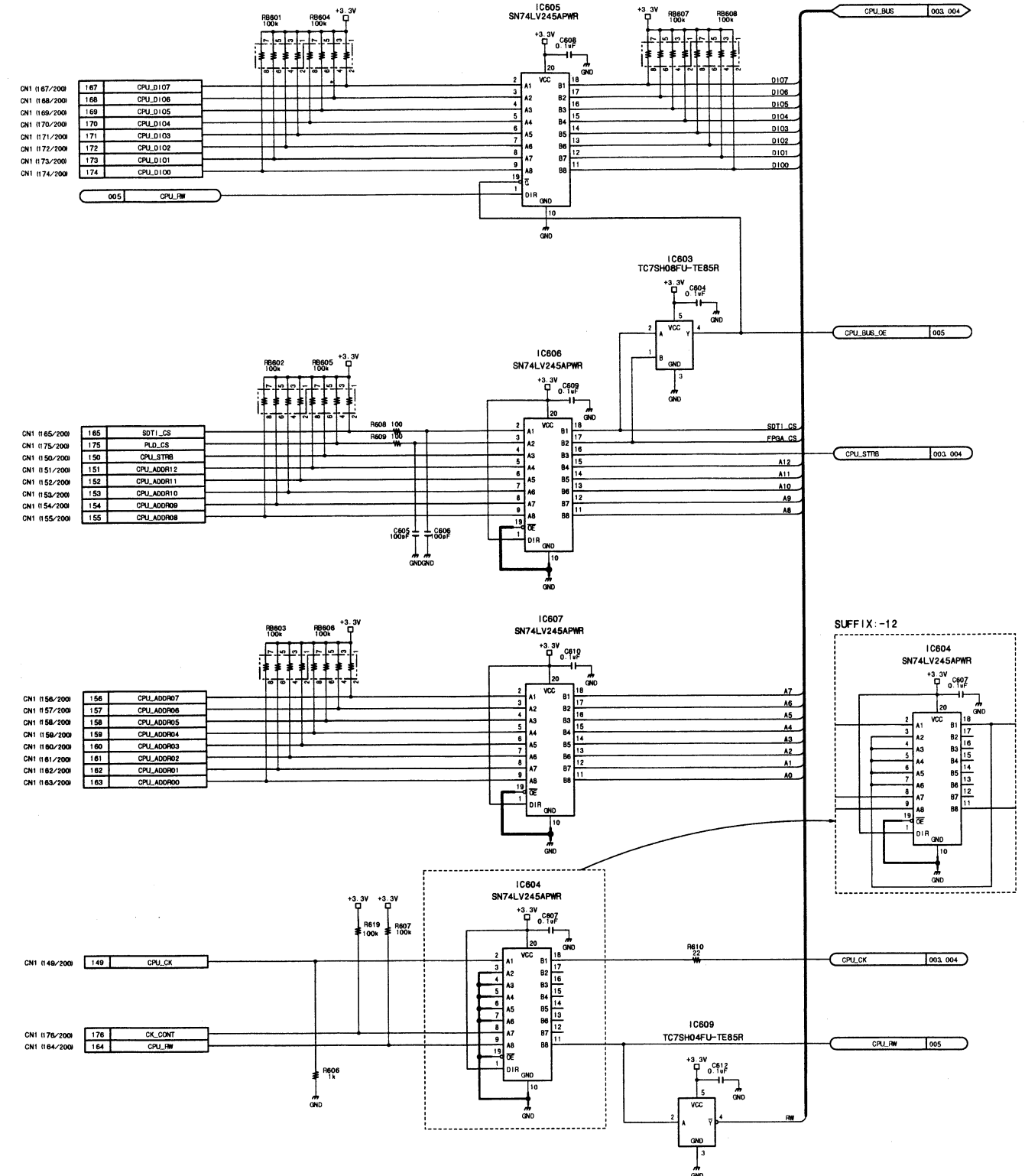
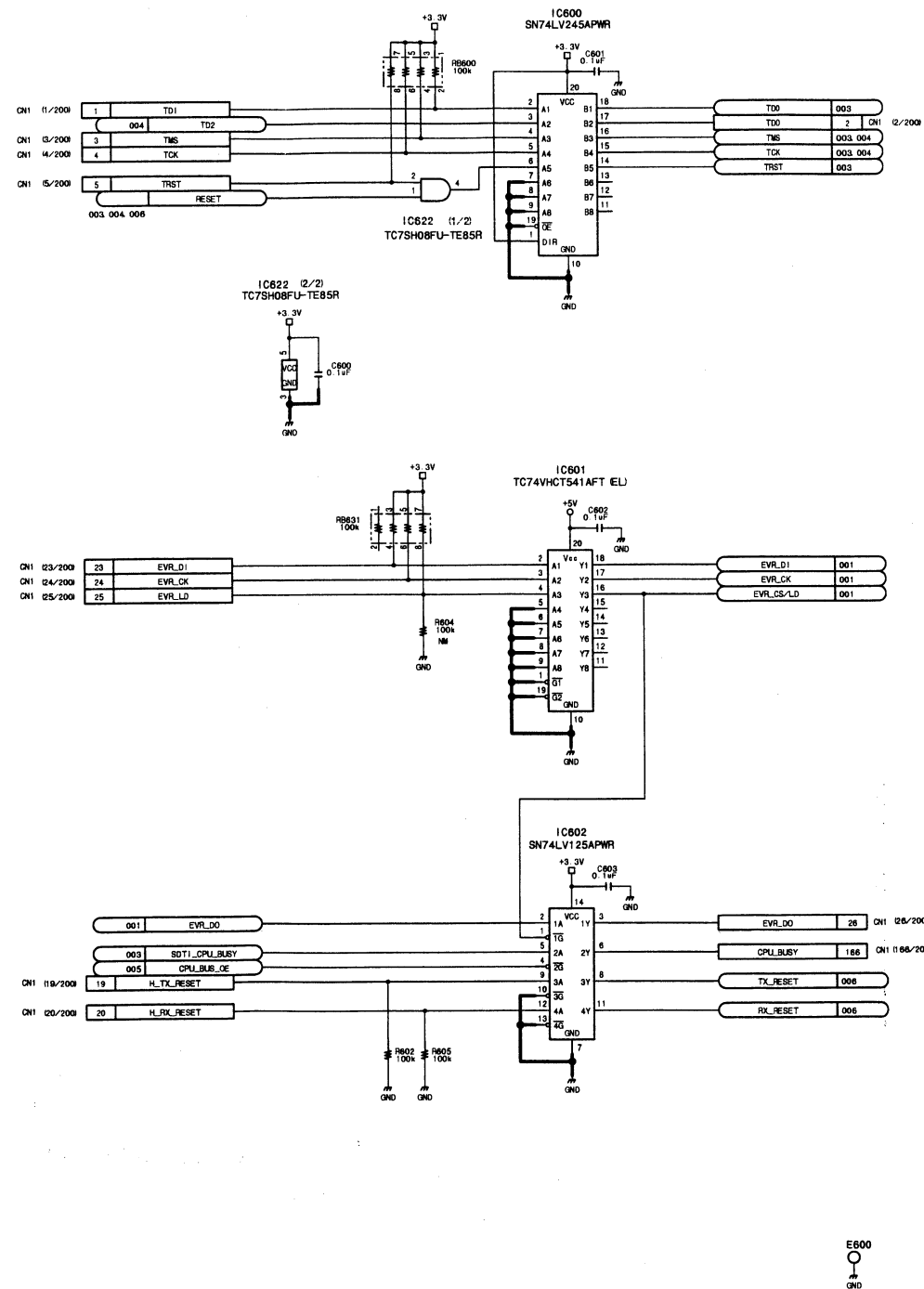
Cue REC/PB
CUE-13 (2/2)
BOARD NO. 1-679-889-11
LOT NO. 261-315 For HDW-2000, M2000/P, M2100/P, A2100
For MSW-M2000/P, M2100/P
BCX-233_CUE-13_017_2



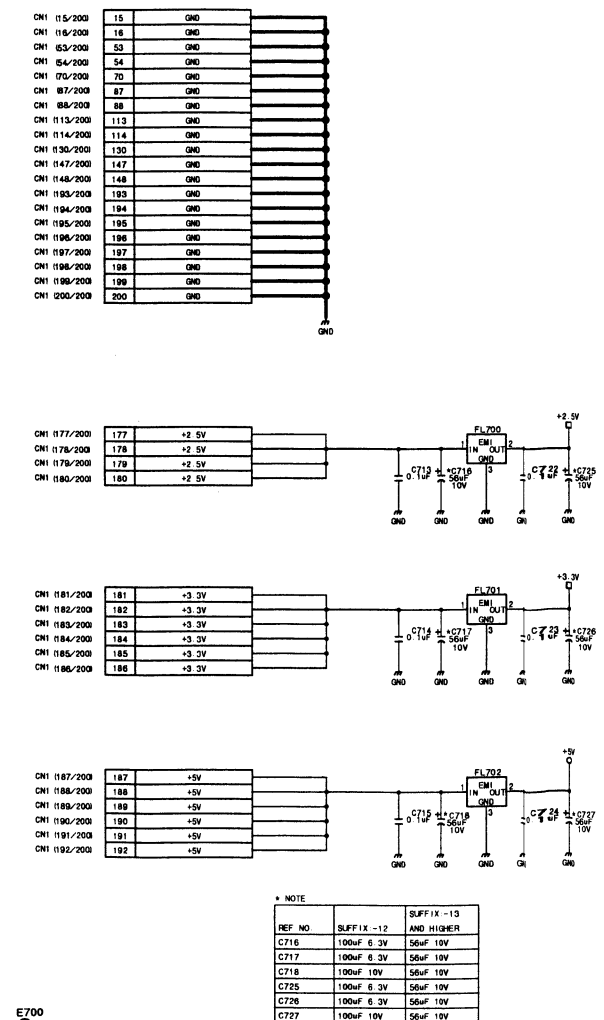
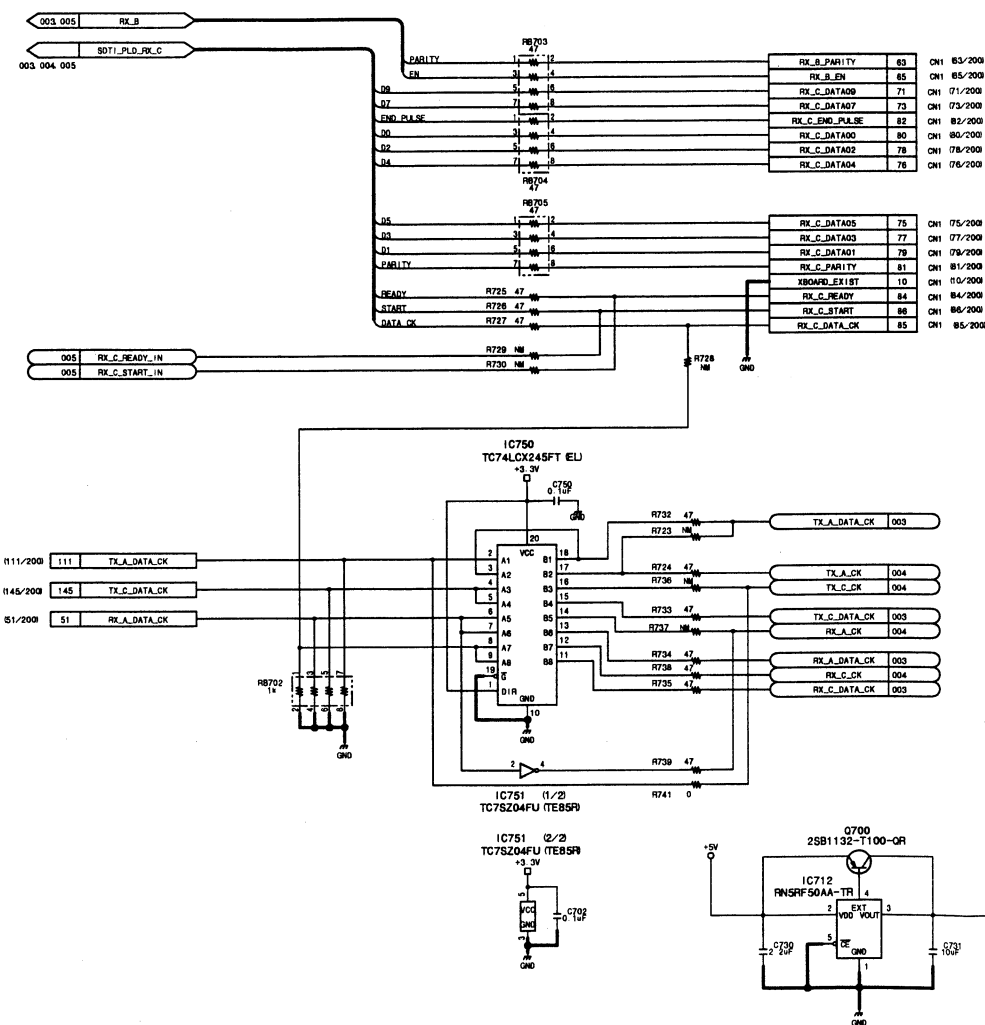
Connection board, Memory label reader/writer
DIO-65
 BOARD NO. 1-680-942-13, 14, 15
 LOT NO. 261-
 MSW-A2000_DIO-65_002_1











HDW series, DVW series, MSW series

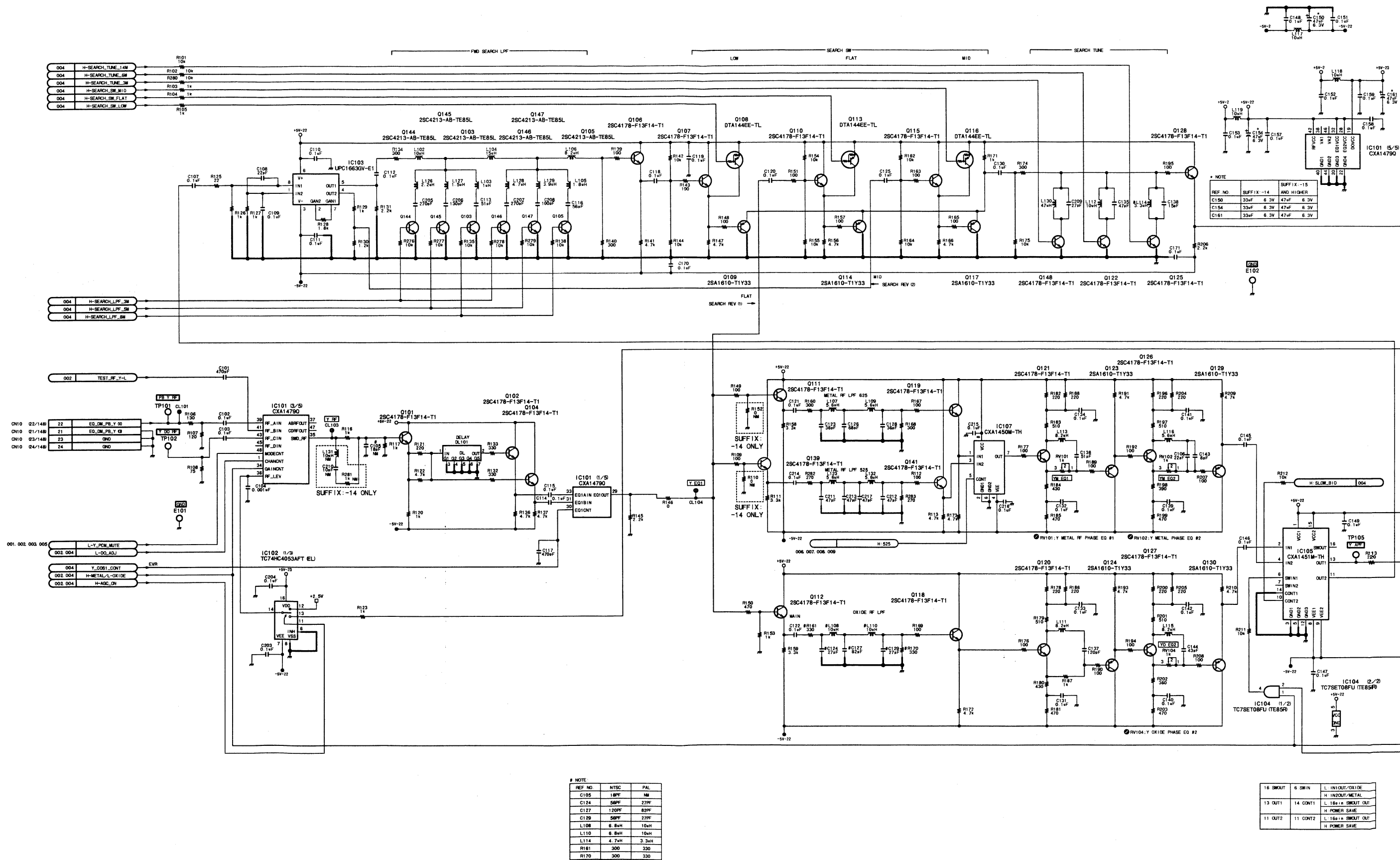
1

2

3

4

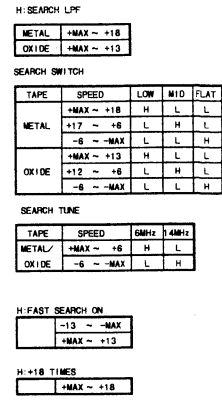
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1-70

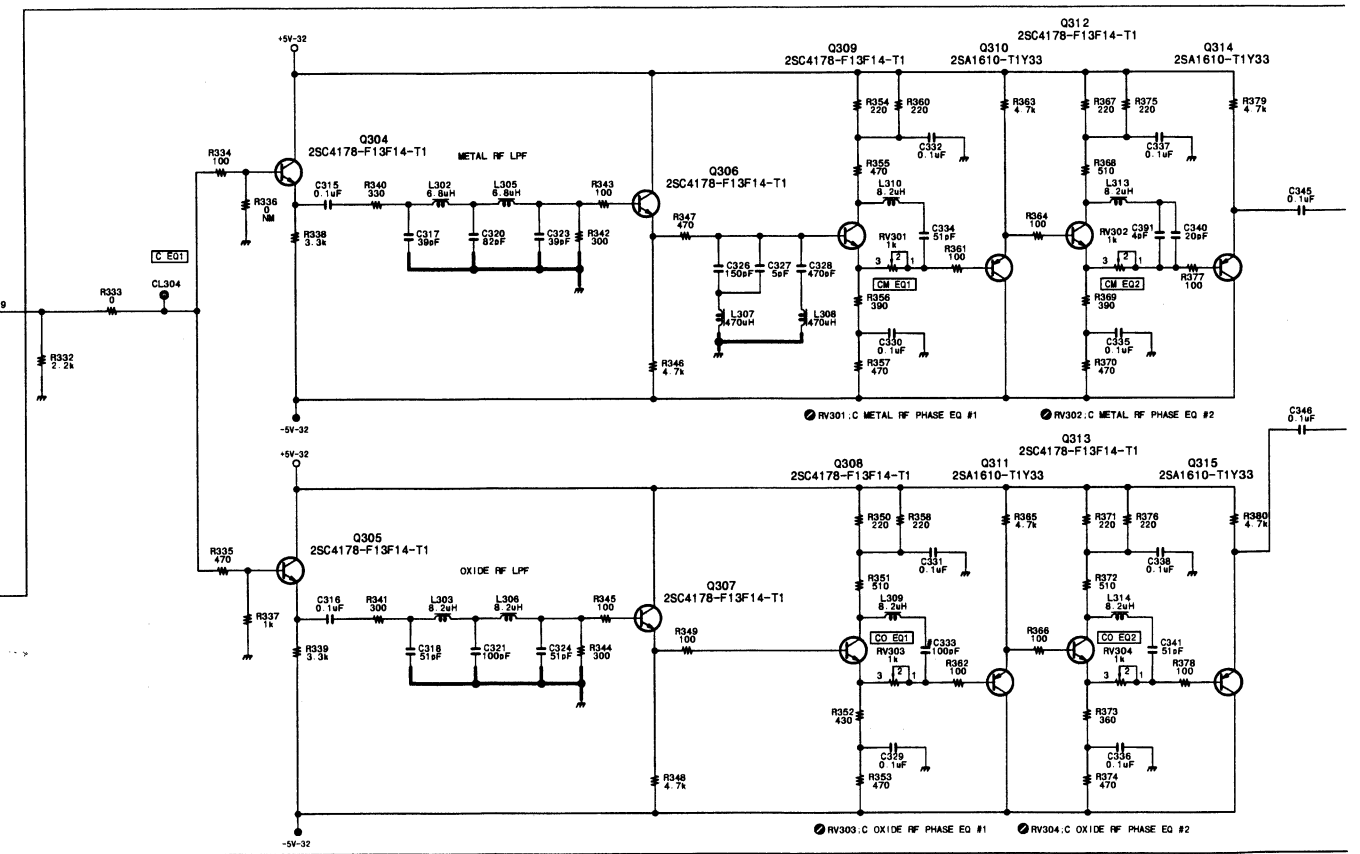
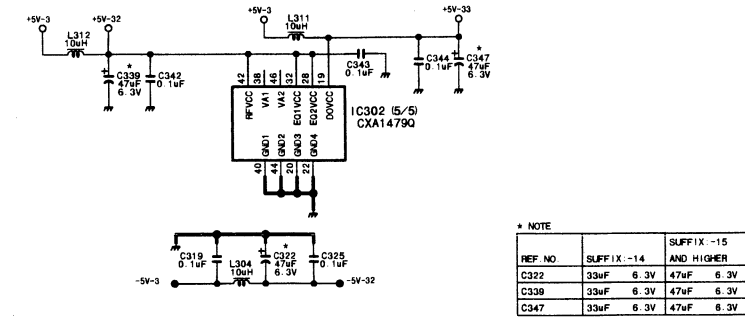
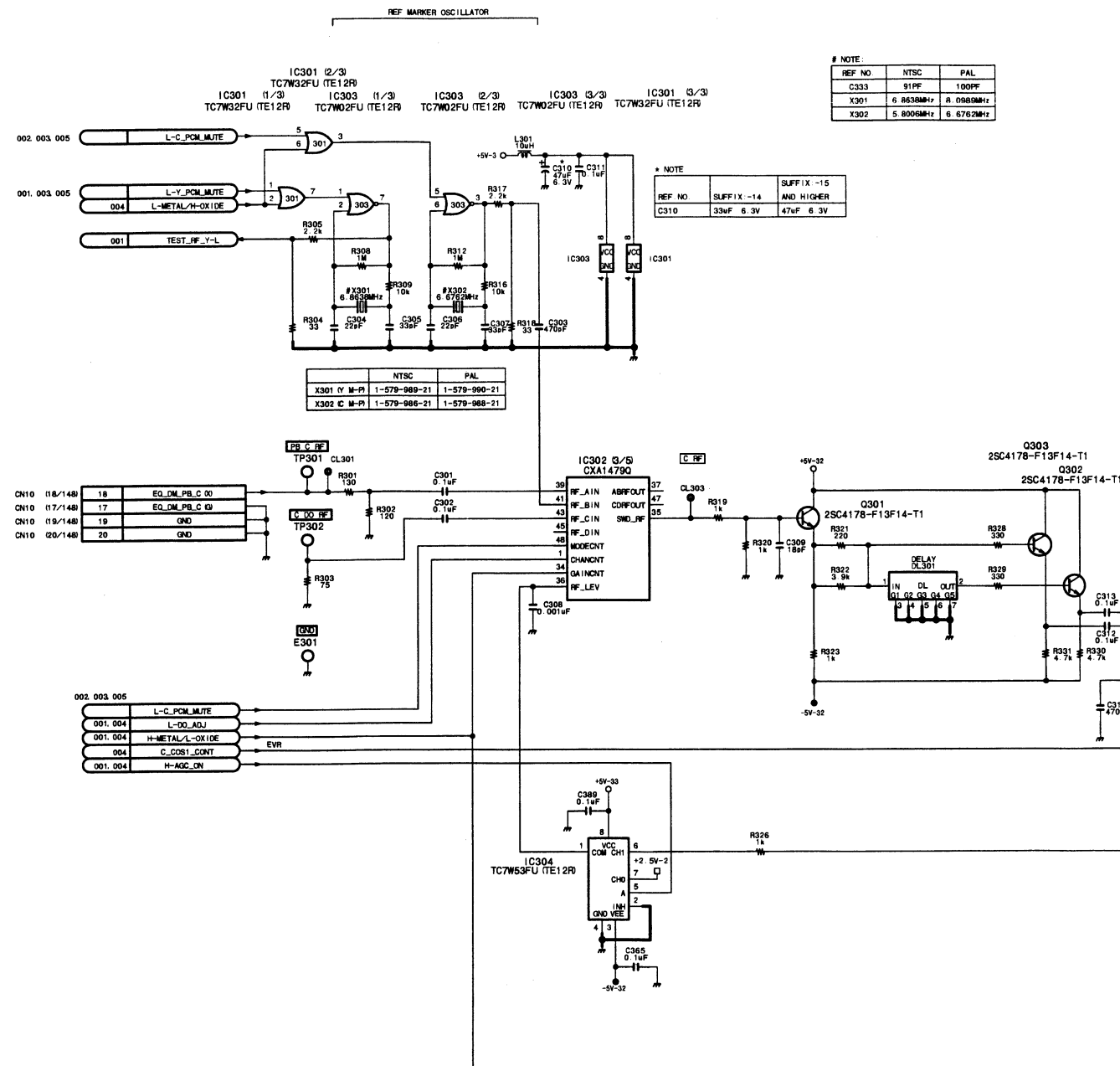
1-70

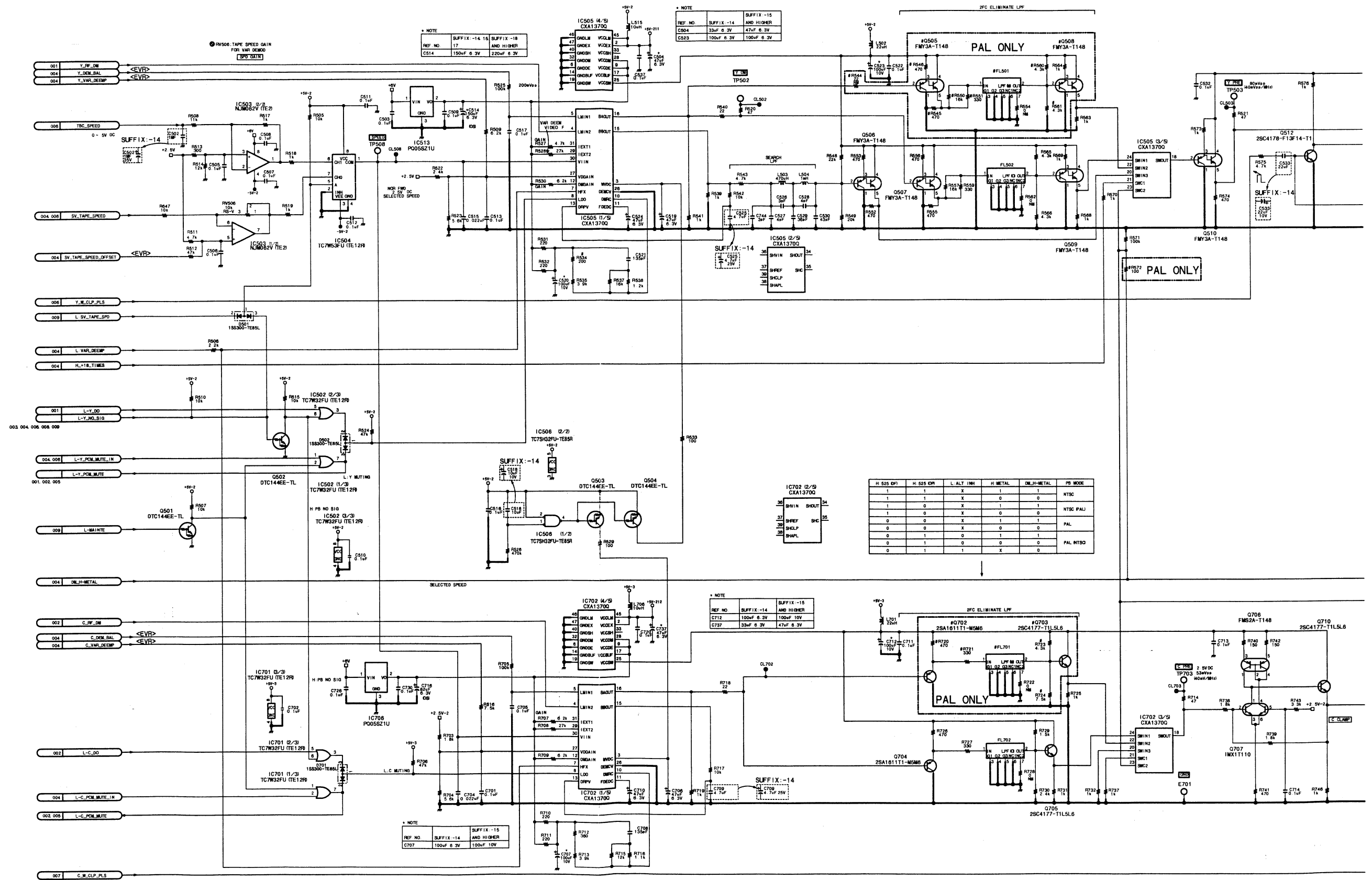
HDW series, DVW series, MSW series

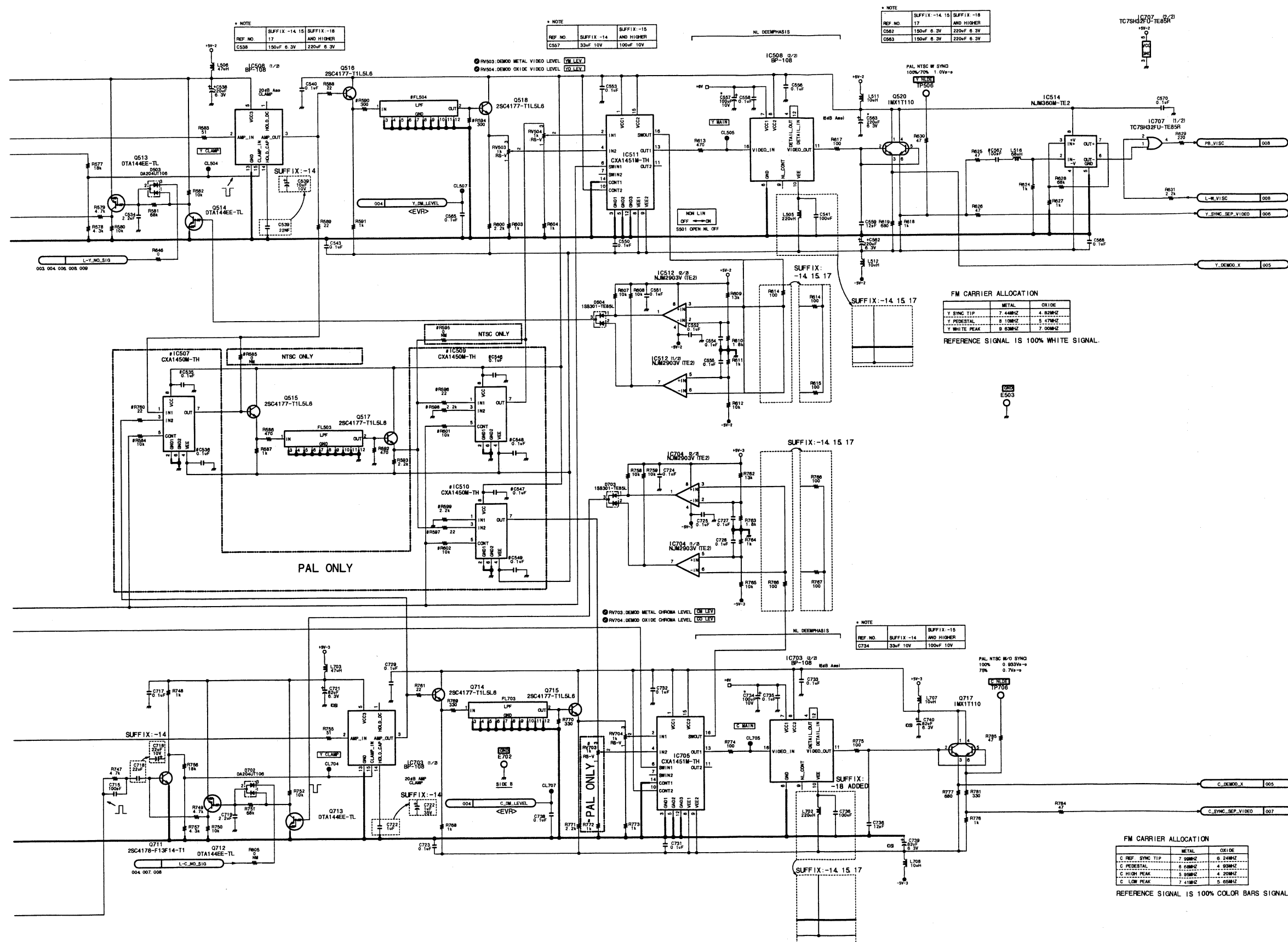


DM-123 (1/9)

MSW-A2000_DM-123_013_1







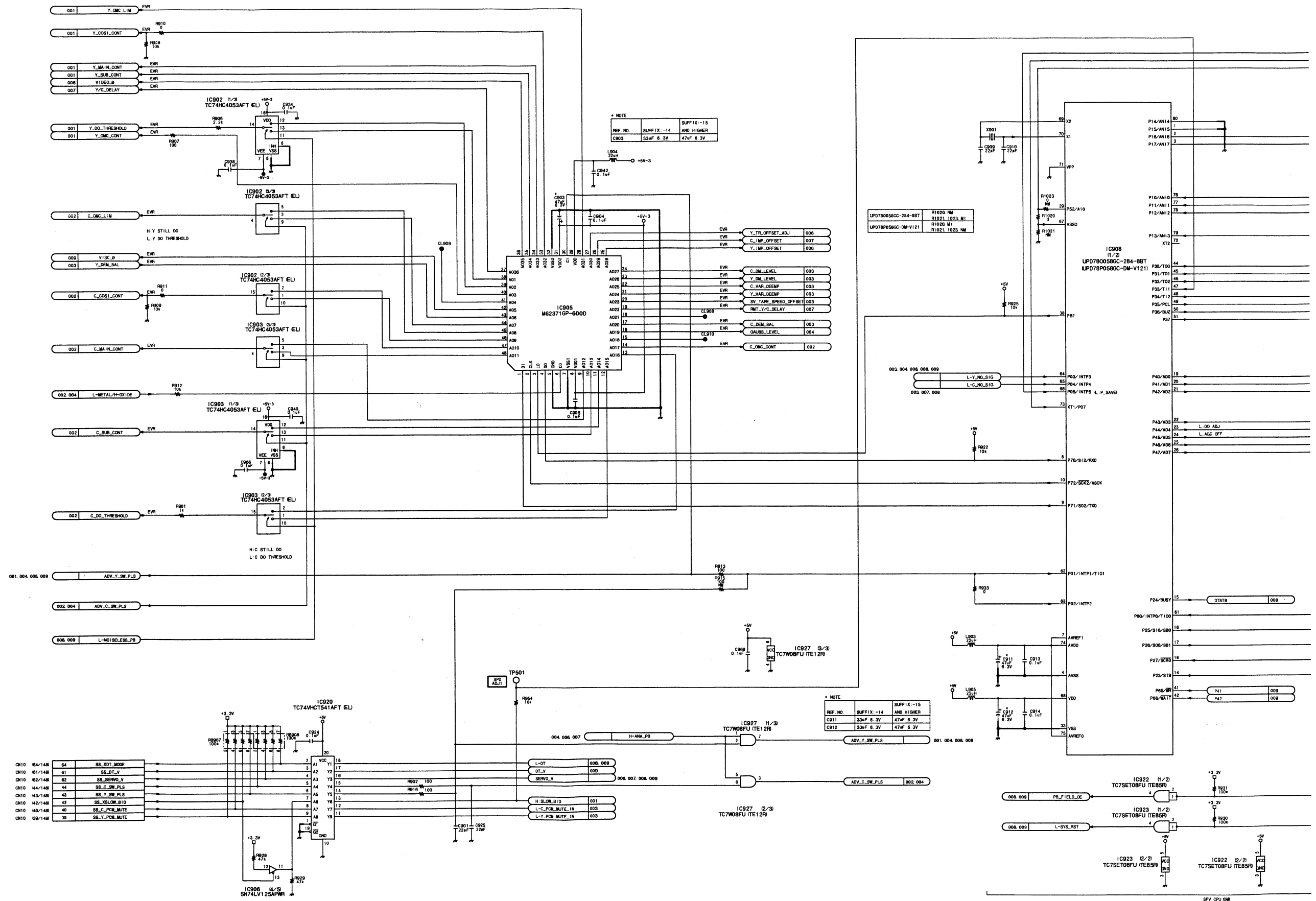
REF. NO.	(PAL)	(NTSC)	REF. NO.	(PAL)	(NTSC)
C535	0.1uF 10V	NM	R585	NM	0.0W
C536	0.1uF 10V	NM	R586	300 1/10W 0.5%	4.70 1/10W 0.5%
C546	0.1uF 10V	NM	R594	300 1/10W 0.5%	4.70 1/10W 0.5%
C547	0.1uF 10V	NM	R595	NM	0.0W
C548	0.1uF 10V	NM	R596	22 1/10W 0.5%	NM
C549	0.1uF 10V	NM	R597	22 1/10W 0.5%	NM
C567	100uF 50V	33uF 50V	R598	2.2k 1/10W 0.5%	NM
FL501	123400721	NM	R599	2.2k 1/10W 0.5%	NM
FL504	123300921	123400521	R601	10k 1/10W 0.5%	NM
FL701	123400221	NM	R602	10k 1/10W 0.5%	NM
IC507	CXA1450M-7	NM	R720	470 1/10W 0.5%	NM
IC508	CXA1450M-7	NM	R721	330 1/10W 0.5%	NM
IC510	CXA1450M-7	NM	R723	4.3k 1/10W 0.5%	NM
Q505	2N3858-T148	NM	R724	7.5k 1/10W 0.5%	NM
Q508	2N3858-T148	NM	R760	22 1/10W 0.5%	NM
Q702	2N3858-T148	NM	R772	1k 1/10W 0.5%	NM
Q703	2N3858-T148	NM	RV703	1k	NM
R534	200 1/10W 0.5%	120 1/10W 0.5%			
R544	22 1/10W 0.5%	NM			
R545	470 1/10W 0.5%	NM			
R546	470 1/10W 0.5%	NM			
R550	10k 1/10W 0.5%	NM			
R551	330 1/10W 0.5%	NM			
R560	4.3k 1/10W 0.5%	NM			
R561	4.3k 1/10W 0.5%	NM			
R564	1k 1/10W 0.5%	NM			
R572	100 1/10W 0.5%	NM			
R584	10k 1/10W 0.5%	NM			

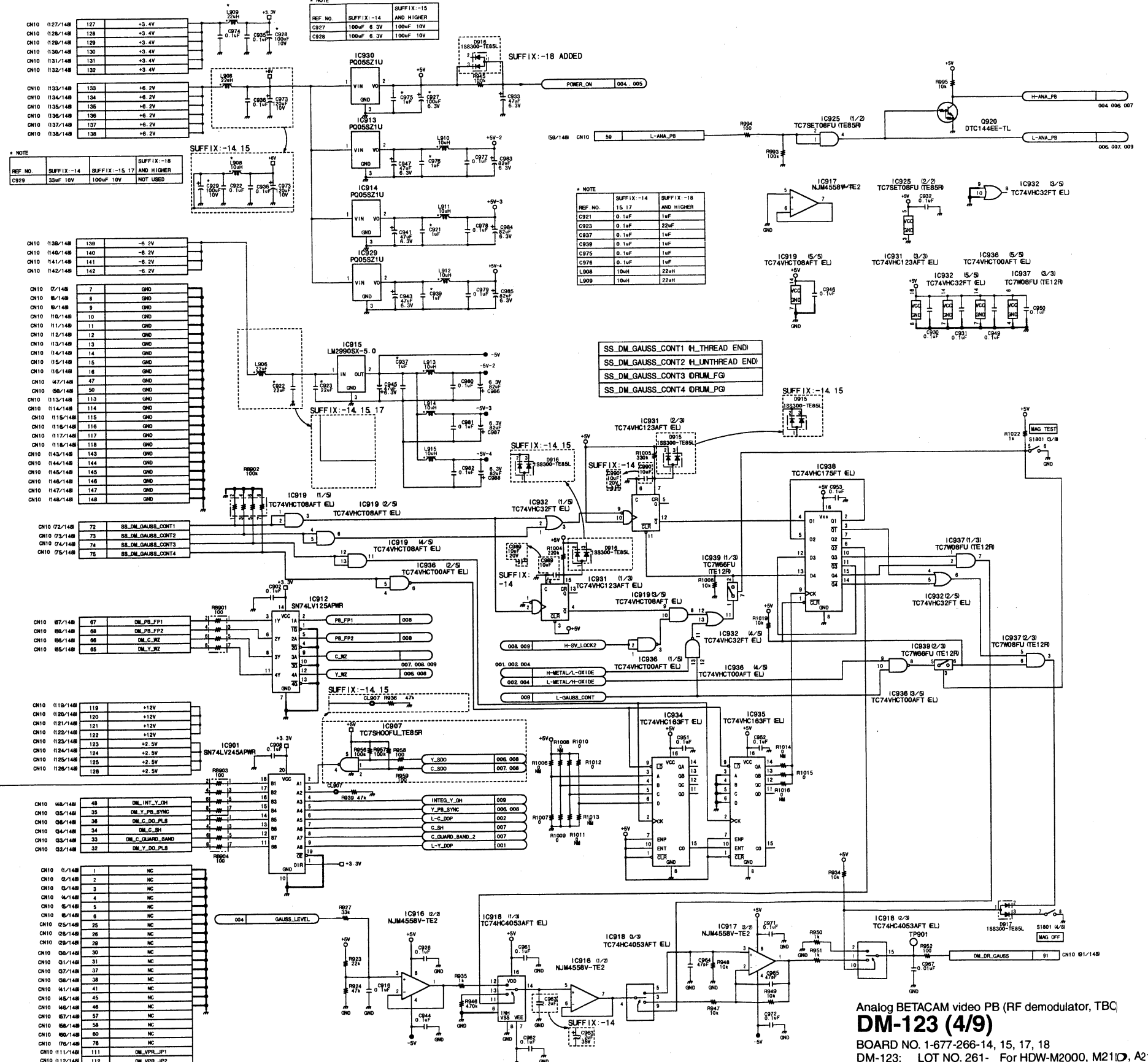
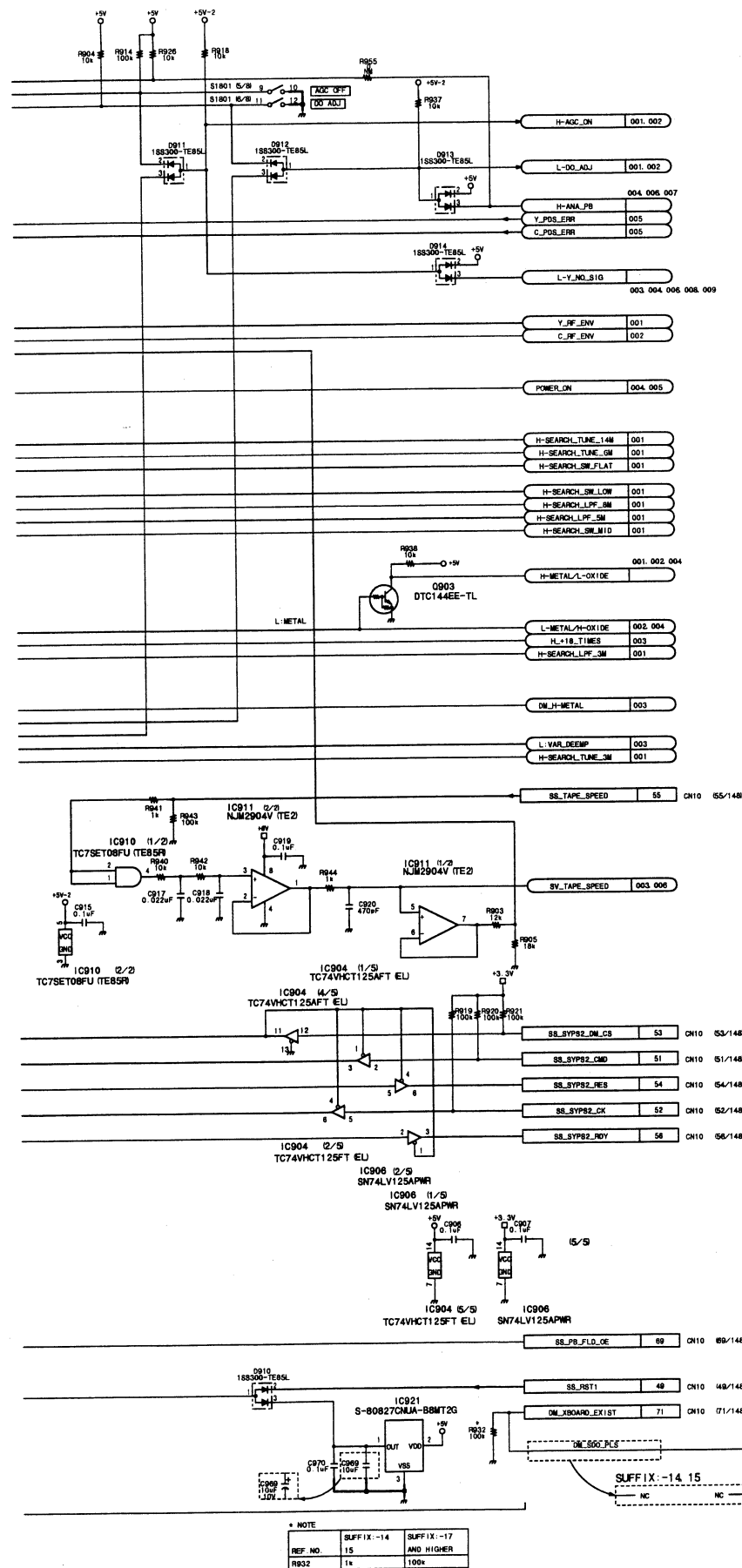
Analog BETACAM video PB (RF demodulator, TBC)

DM-123 (3/9)

BOARD NO. 1-677-266-14, 15, 17, 18
 DM-123: LOT NO. 261- For HDW-M200, M2100, A2100
 LOT NO. 462- For HDW-S200
 LOT NO. 434- For DVW-M200
 LOT NO. 261- For MSW-M200, A2000, M2100
 LOT NO. 491- For MSW-M200IE, M2100E
 DM-123P: LOT NO. 261- For HDW-M200P, M2100P
 LOT NO. 462- For HDW-S200P
 LOT NO. 434- For DVW-M200P
 LOT NO. 261- For MSW-M200P, A2000P, M2100P
 LOT NO. 491- For MSW-M200IEP, M2100EP

MSW-A2000_DM-123_013_3





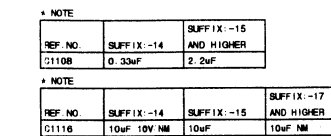
Analog BETACAM video PB (RF demodulator, TBC)

DM-123 (4/9)

BOARD NO. 1-677-266-14, 15, 17, 18

DM-123: LOT NO. 261- For HDW-M2000, M2100, A2100
 LOT NO. 462- For HDW-S2000
 LOT NO. 434- For DVW-M2000
 LOT NO. 261- For MSW-M2000, A2000, M2100
 LOT NO. 491- For MSW-M2000E, M2100E
 DM-123P: LOT NO. 261- For HDW-M2000P, M2100P
 LOT NO. 462- For HDW-S2000P
 LOT NO. 434- For DVW-M2000P
 LOT NO. 261- For MSW-M2000P, A2000P, M2100P
 LOT NO. 491- For MSW-M2000EP, M2100EP

MSW-A2000_DM-123_013_4

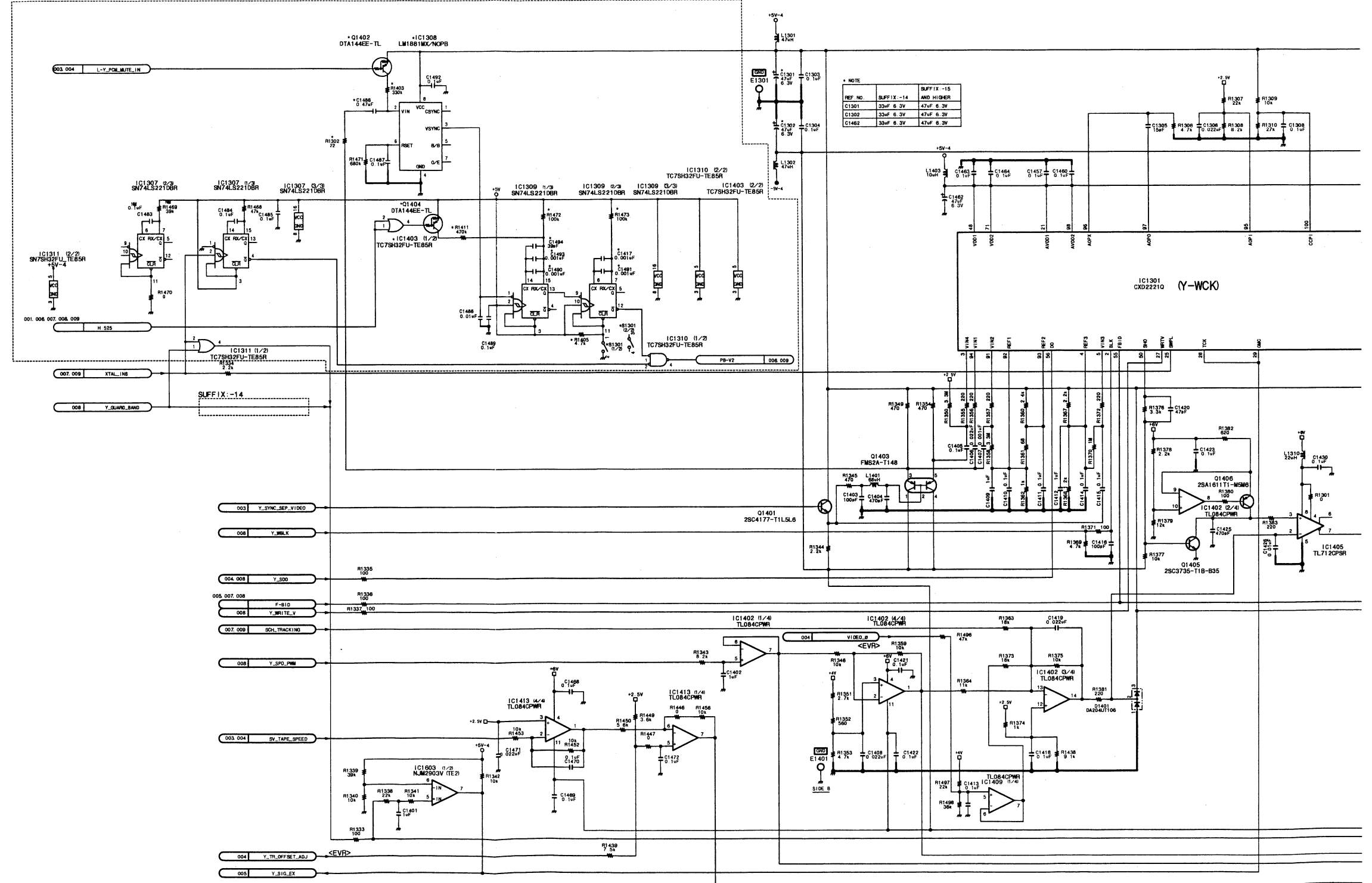


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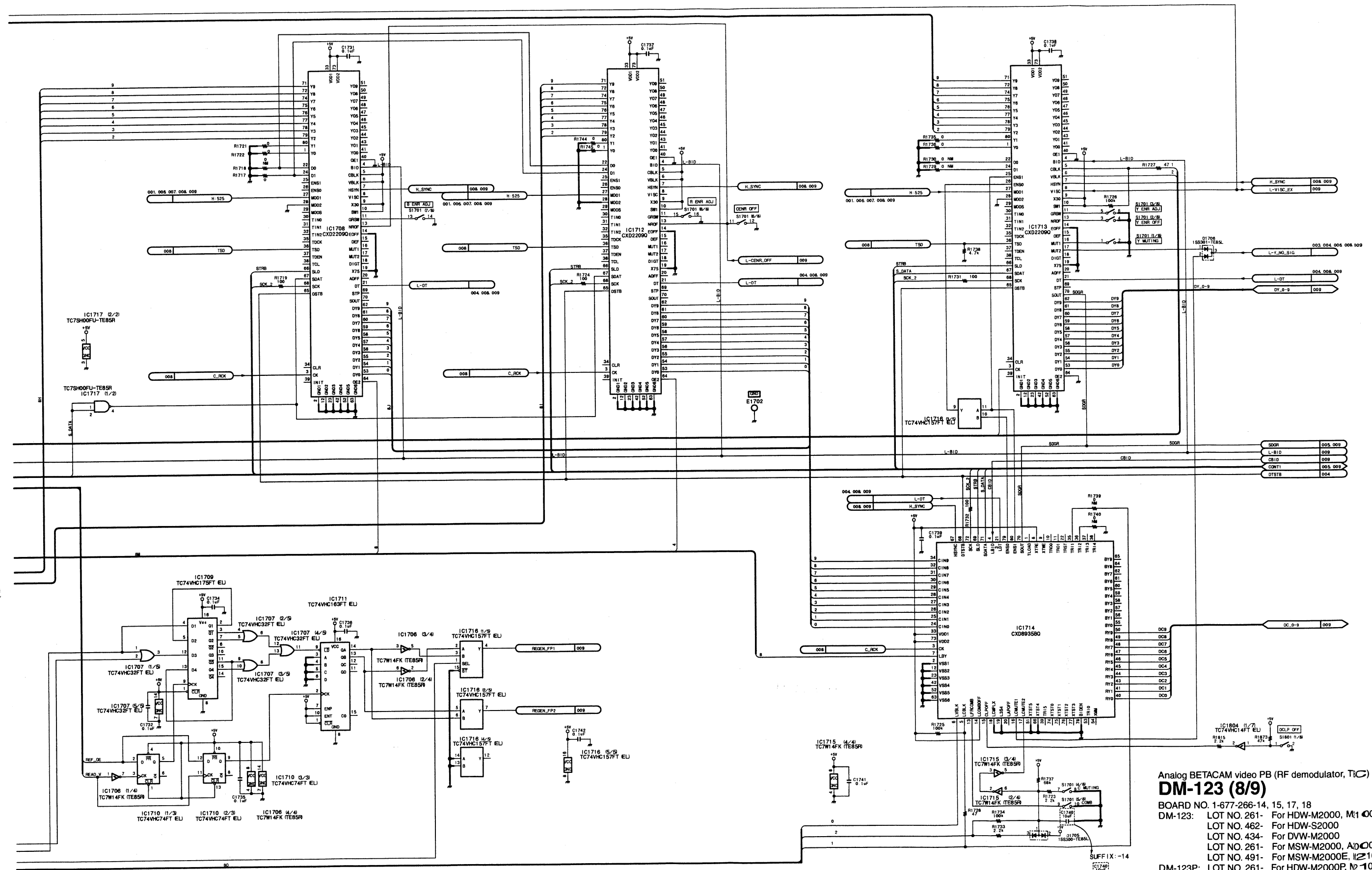
* NOTE

REF. NO.	SUFFIX -15 AND HIGHER	SUFFIX -17 AND HIGHER	REF. NO.	SUFFIX -15 AND HIGHER	SUFFIX -17 AND HIGHER
C1417	NOT USED	0.001uF	Q1404	NOT USED	MOUNT
C1486	0.1uF	0.47uF	R1302	NOT USED	22
C1490	0.01uF	0.001uF	R1403	NOT USED	330n
C1491	0.01uF	0.001uF	R1405	NOT USED	4.7k
C1493	NOT USED	0.001uF	R1411	NOT USED	470n
C1494	NOT USED	39nF	R1472	22n	100n
IC1308	MM	MOUNT	R1473	20n	100n
IC1403	NOT USED	MOUNT	S1301	NOT USED	MOUNT
Q1402	NOT USED	MOUNT			

SUFFIX -15 ADDED



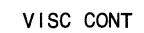




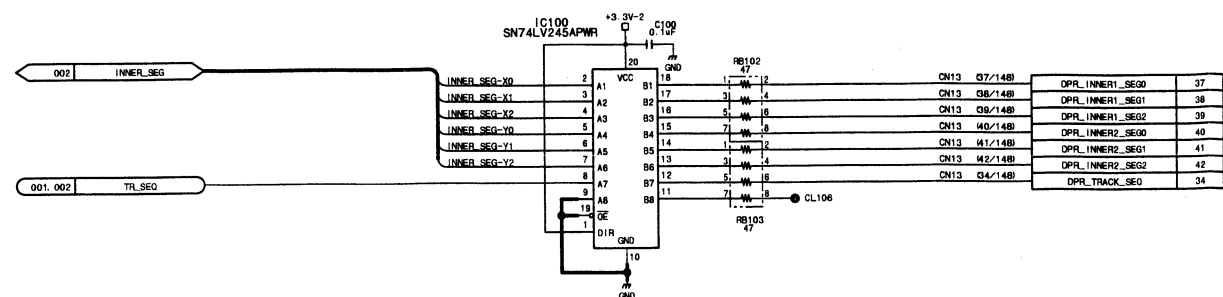
Analog BETACAM video PB (RF demodulator, TBC)
DM-123 (8/9)

BOARD NO. 1-677-266-14, 15, 17, 18
DM-123: LOT NO. 261- For HDW-M2000, M1 00, A2100
LOT NO. 462- For HDW-S2000
LOT NO. 434- For DVW-M2000
LOT NO. 261- For MSW-M2000, A2 00, M2100
LOT NO. 491- For MSW-M2000E, M2 100E
DM-123P: LOT NO. 261- For HDW-M2000P, M2 100P
LOT NO. 462- For HDW-S2000P
LOT NO. 434- For DVW-M2000P
LOT NO. 261- For MSW-M2000P, A2 00P, M2100P
LOT NO. 491- For MSW-M2000EP, M2 100EP

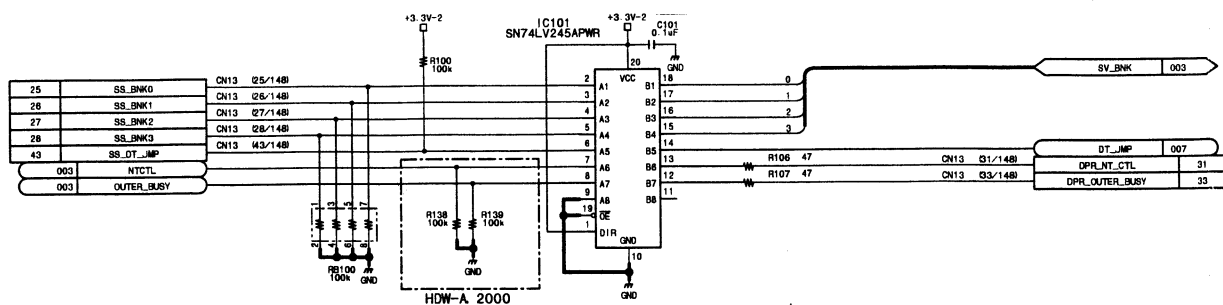
MSW-A2000_DM-123_013_8



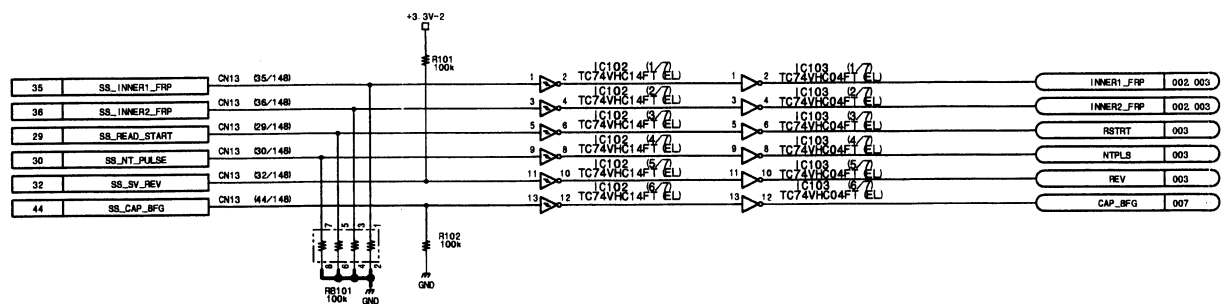
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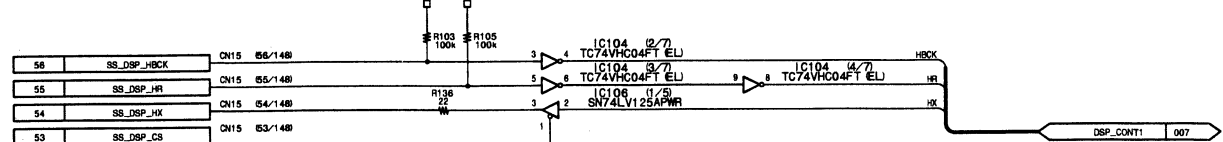
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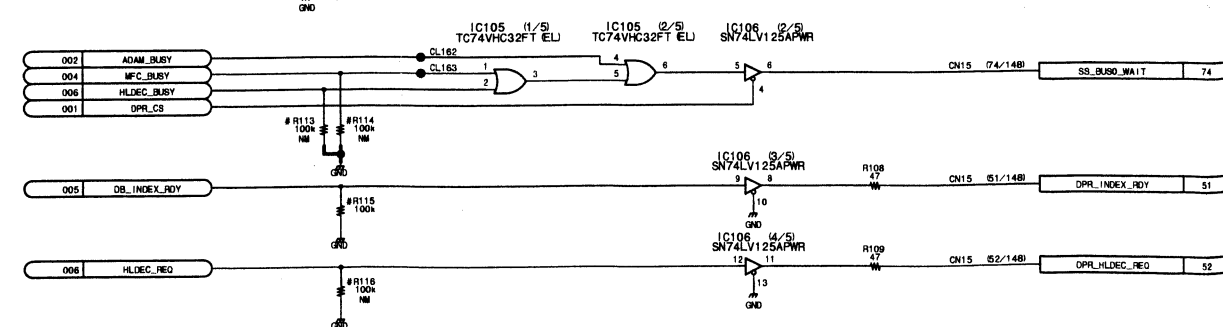
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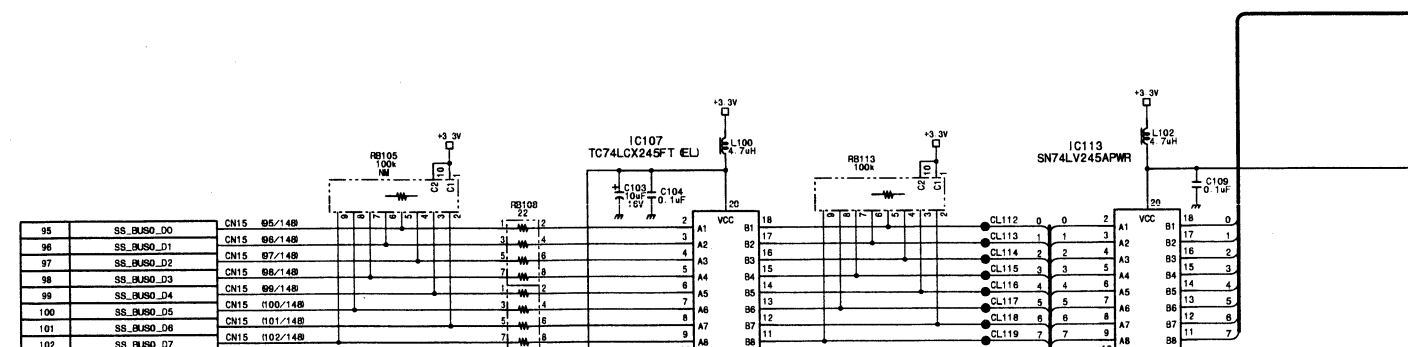
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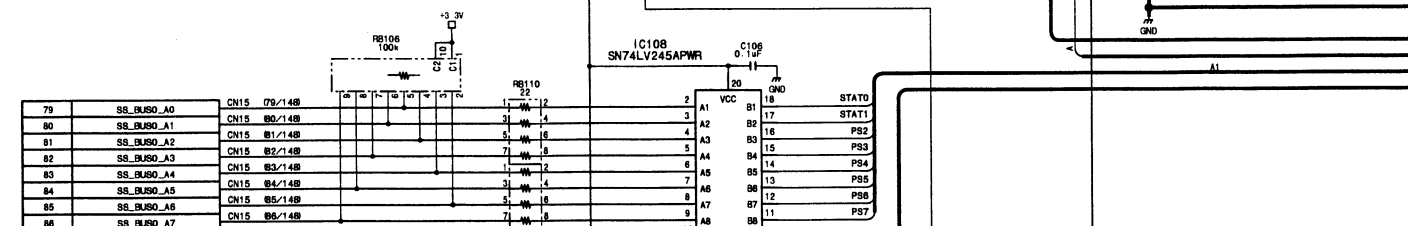
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20	DPR_SS_IP2	CN13 20/148				100% 1-10W 0.5%	NI
21	DPR_SS_IP3	CN13 21/148				100% 1-10W 0.5%	NI
22	DPR_SS_IP4	CN13 22/148				100% 1-10W 0.5%	NI
23	DPR_SS_IP5	CN13 23/148				100% 1-10W 0.5%	NI
24	DPR_SS_IP6	CN13 24/148				100% 1-10W 0.5%	NI
45	GND	CN13 45/148				100% 1-10W 0.5%	NI
46	GND	CN13 46/148				100% 1-10W 0.5%	NI



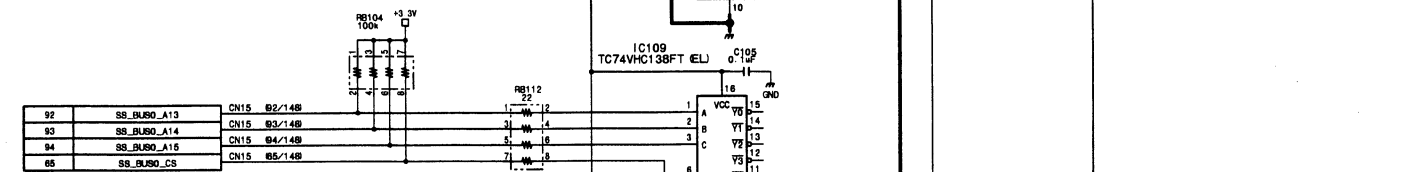
4



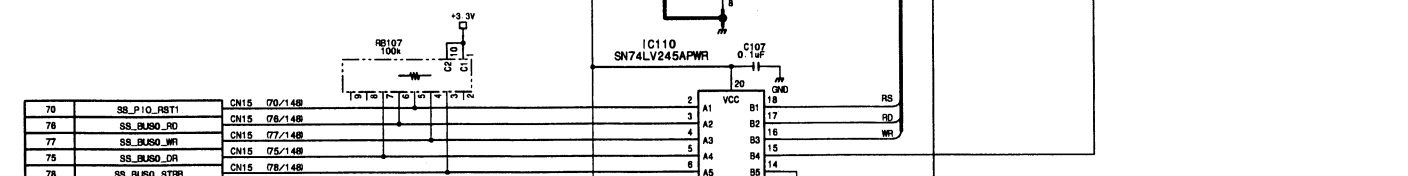
79	SS_BUS0_A0	CN15 79
80	SS_BUS0_A1	CN15 80
81	SS_BUS0_A2	CN15 81
82	SS_BUS0_A3	CN15 82
83	SS_BUS0_A4	CN15 83
84	SS_BUS0_A5	CN15 84
85	SS_BUS0_A6	CN15 85
86	SS_BUS0_A7	CN15 86



92	SS_BUS0_A13	CN15 02
93	SS_BUS0_A14	CN15 03
94	SS_BUS0_A15	CN15 04
65	SS_BUS0_CS	CN15 05

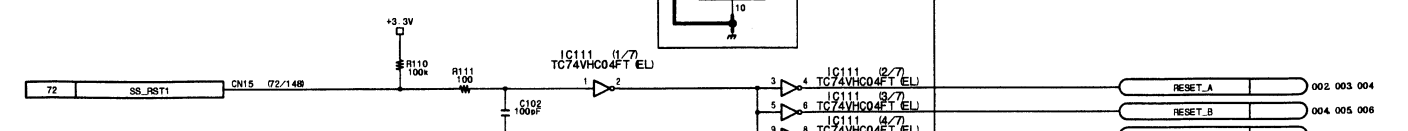


70	SS_PIO_RST1	CN15	07
76	SS_BUS0_RD	CN15	06
77	SS_BUS0_WR	CN15	07
75	SS_BUS0_DR	CN15	05
78	SS_BUS0_STOP	CN15	06



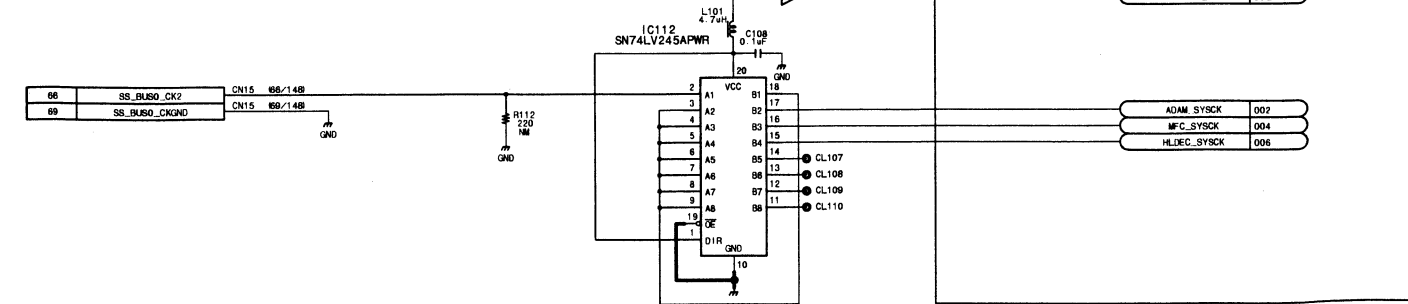
STRB_A	002 003 004
STRB_B	003 004 005 006
STRB_D	008 009

72	SS_RST1	CN15	72
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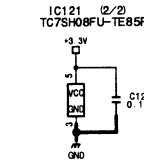
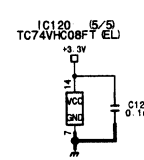
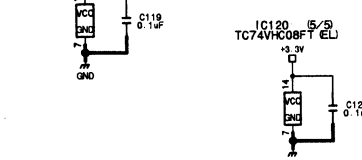
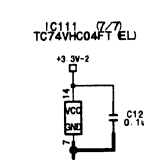
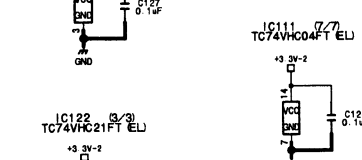
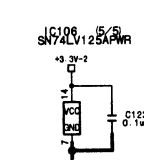
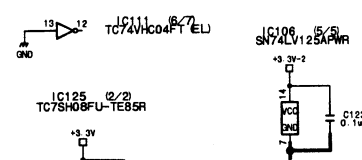
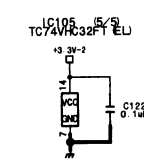
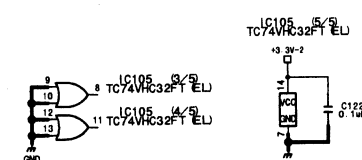
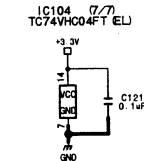
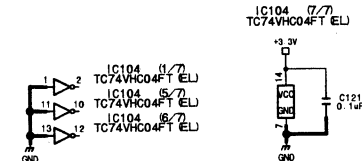
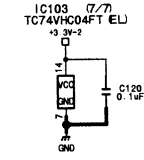
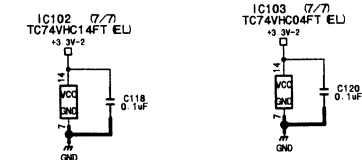
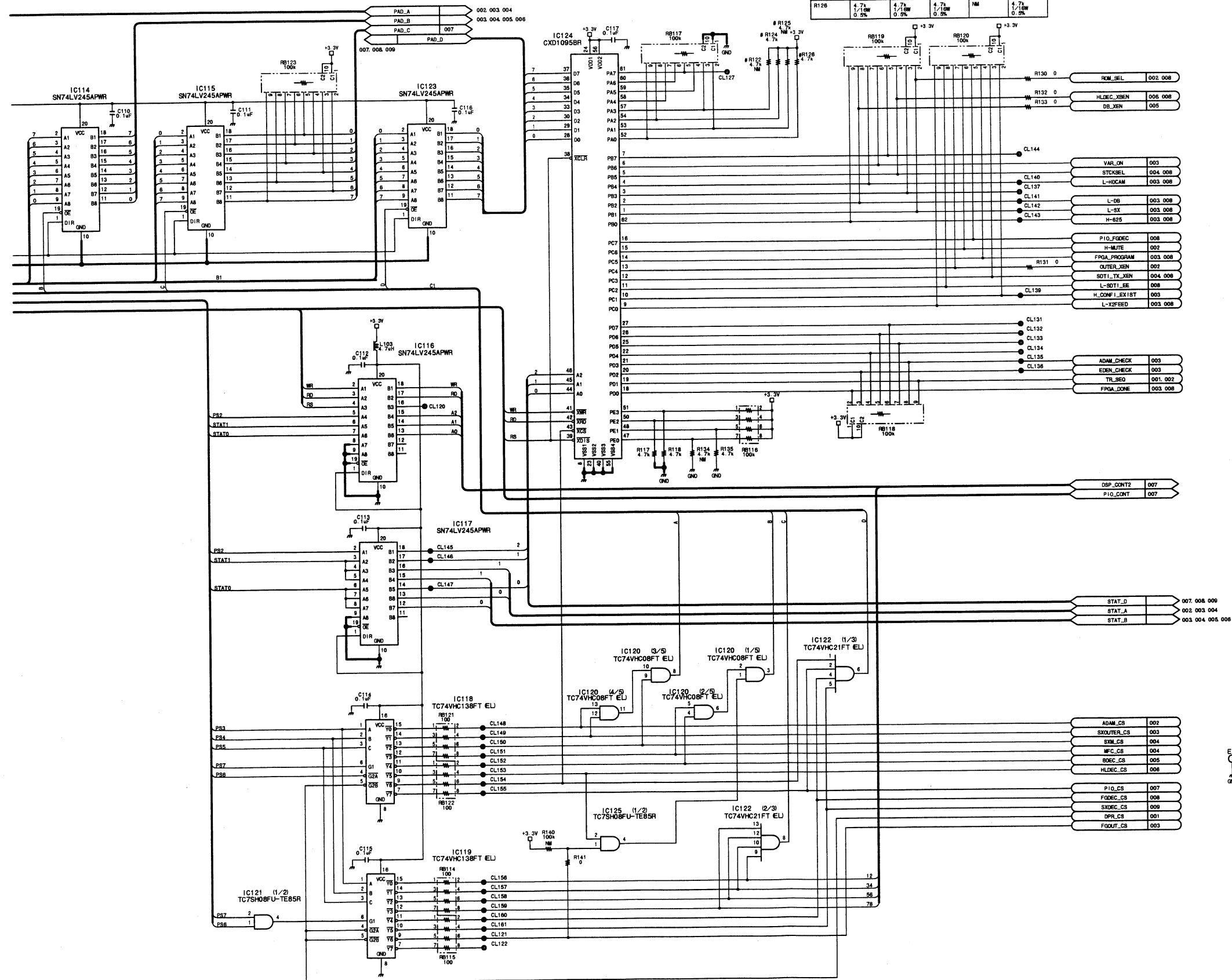
RESET_A	002 003 004
RESET_B	004 005 006
RESET_C	008
RESET_D	008 009

66	SS_BUS0_CK2	CN15	66
69	SS_BUS0_CK0ND	CN15	69



ADAM_SYSCK	002
MFC_SYSCK	004
HLDEC_SYSCK	006

# NOTE					
REF. NO.	MSW-A	MSW-2000	MSW-M	HOW-A 2000	HOW-M
R122	NM	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%
R124	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	NM	4.7s 1/1SW 0.5%
R125	NM	NM	4.7s 1/1SW 0.5%	NM	4.7s 1/1SW 0.5%
R128	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	4.7s 1/1SW 0.5%	NM	4.7s 1/1SW 0.5%



Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DS[†])

DPR-155 (1/9)

BOARD NO. 1-677-279-13, 14

For MSW-2000

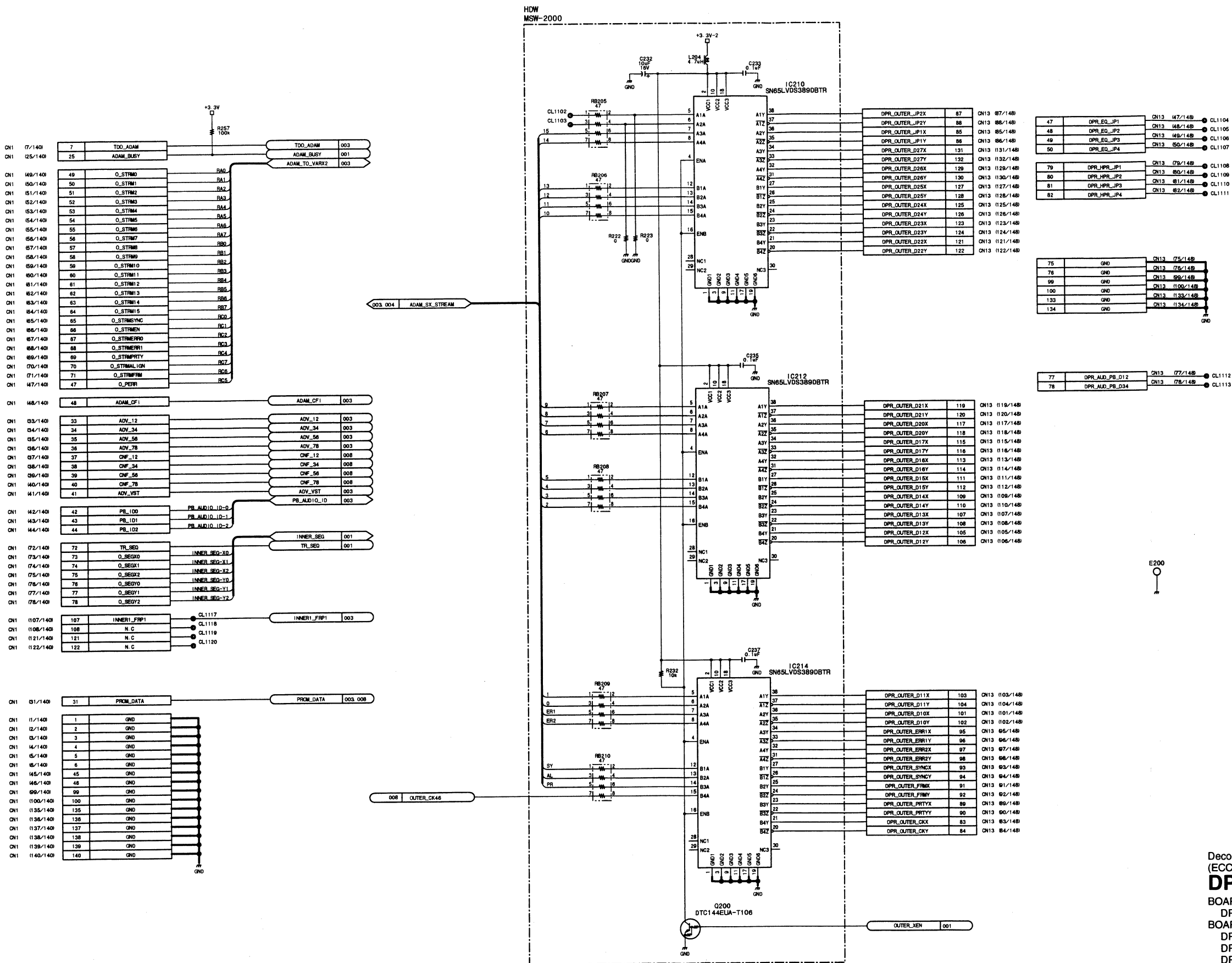
BOARD NO. 1-677-279-13

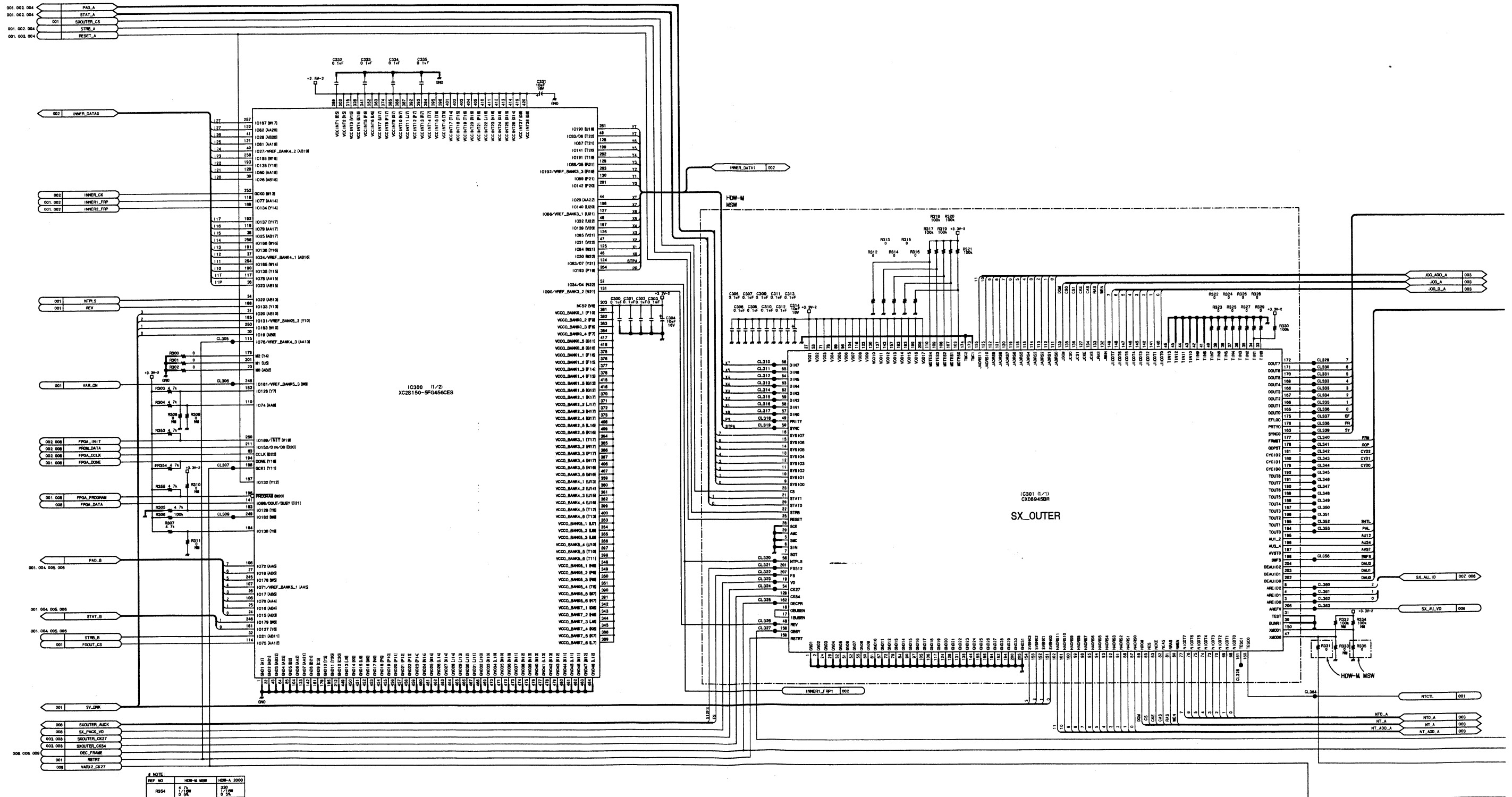
BOARD NO. 1-011-275-15

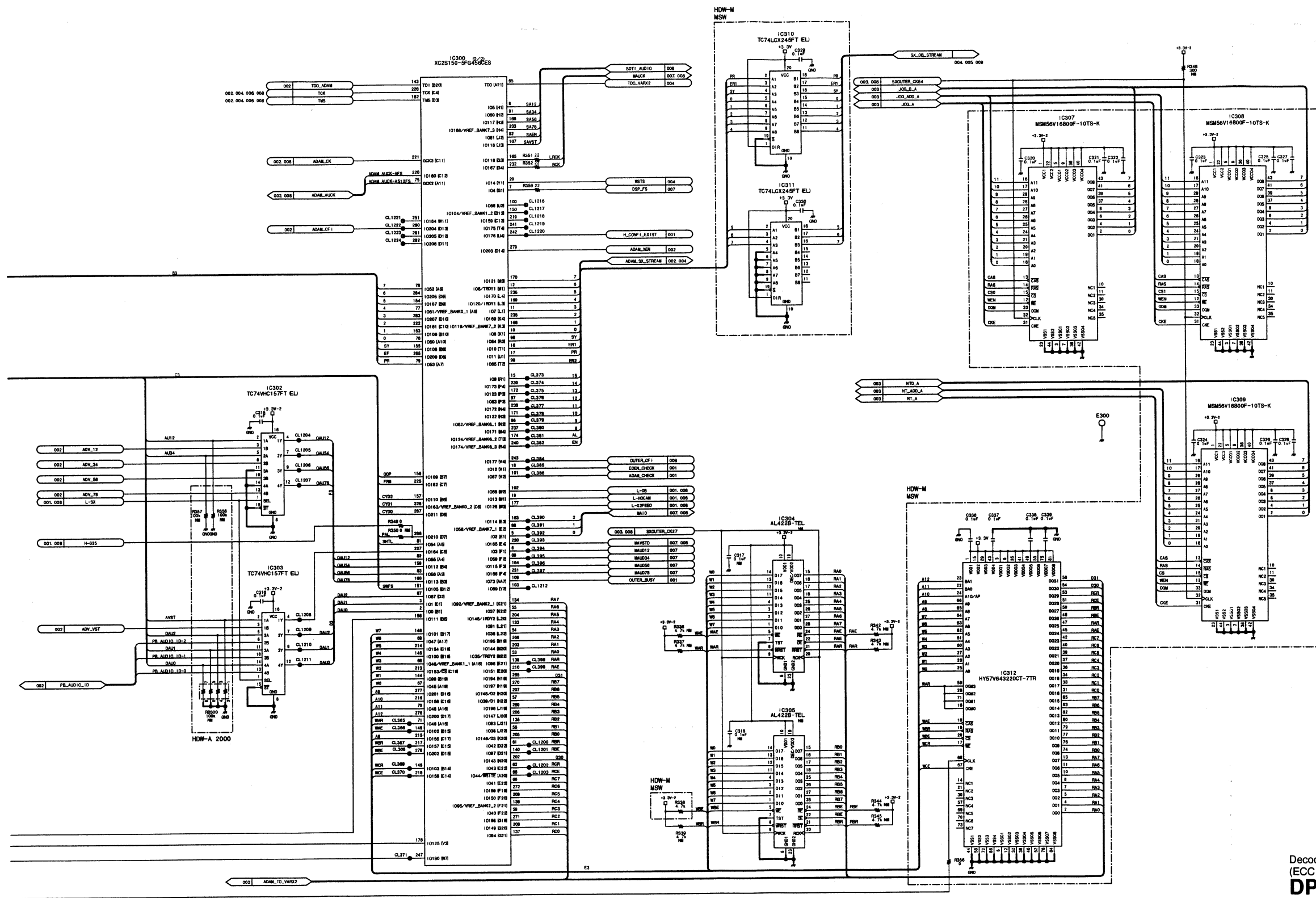
DPR-155H:	LOT NO. 261-351	For HDW-2000, A2100/P
DPR-155HM:	LOT NO. 261-351	For HDW-M2000/P, A2100/P
DPR-155M:	LOT NO. 261-351	For MSW-M2000/P, A2100/P
DPR-155:	LOT NO. 261-351	For MSW-A2000/P

MFV_DPR-155_108_1









Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-155 (3/9)

BOARD NO. 1-677-279-13, 14

DPR-155C: LOT NO. 261-

For MSW-2000

BOARD NO. 1-677-279-13

DPR-155H: LOT NO. 261-351

For HDW-2000, A2100

DPR-155HM: LOT NO. 261-351

For HDW-M2000/P, M2100/P

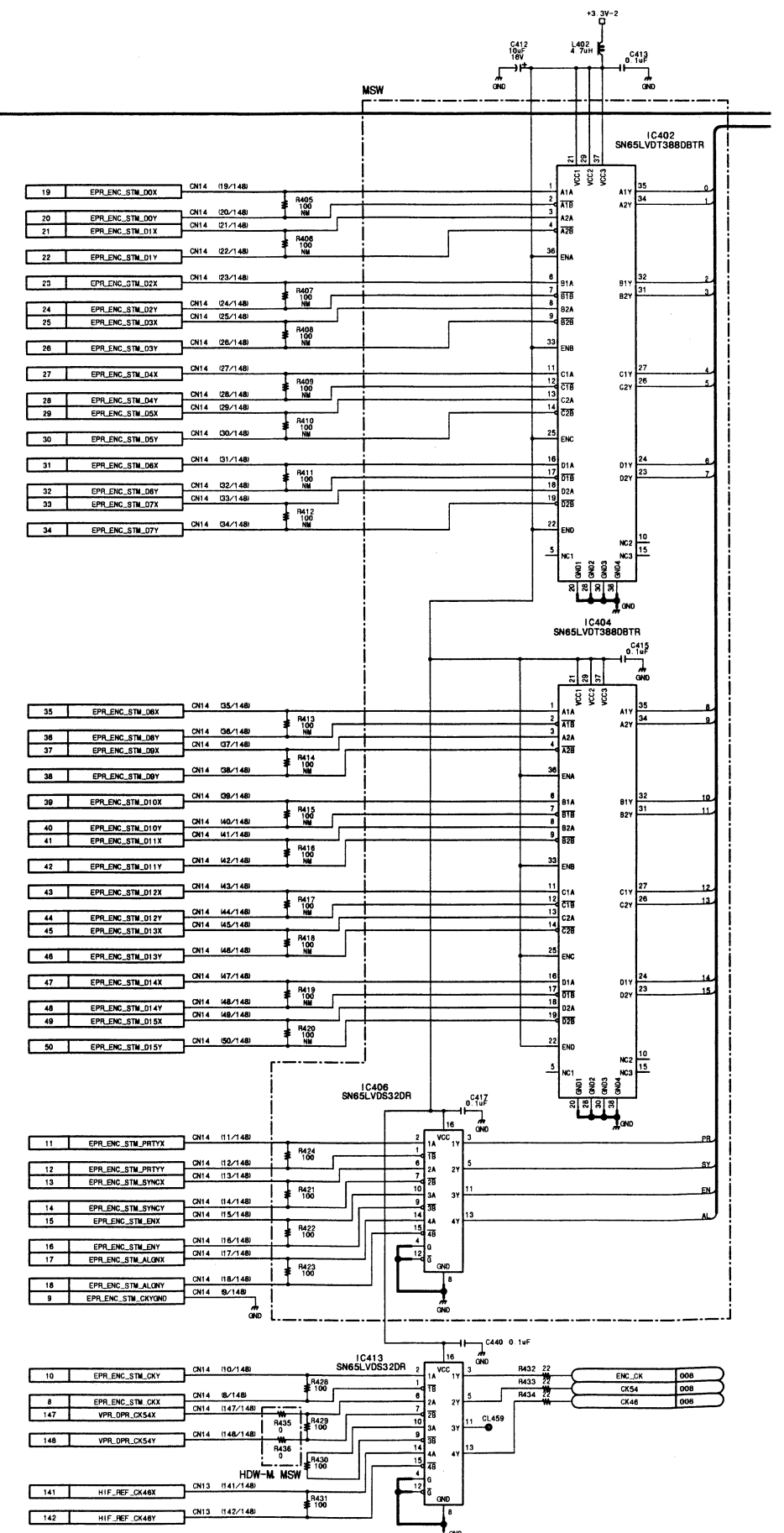
DPR-155M: LOT NO. 261-351

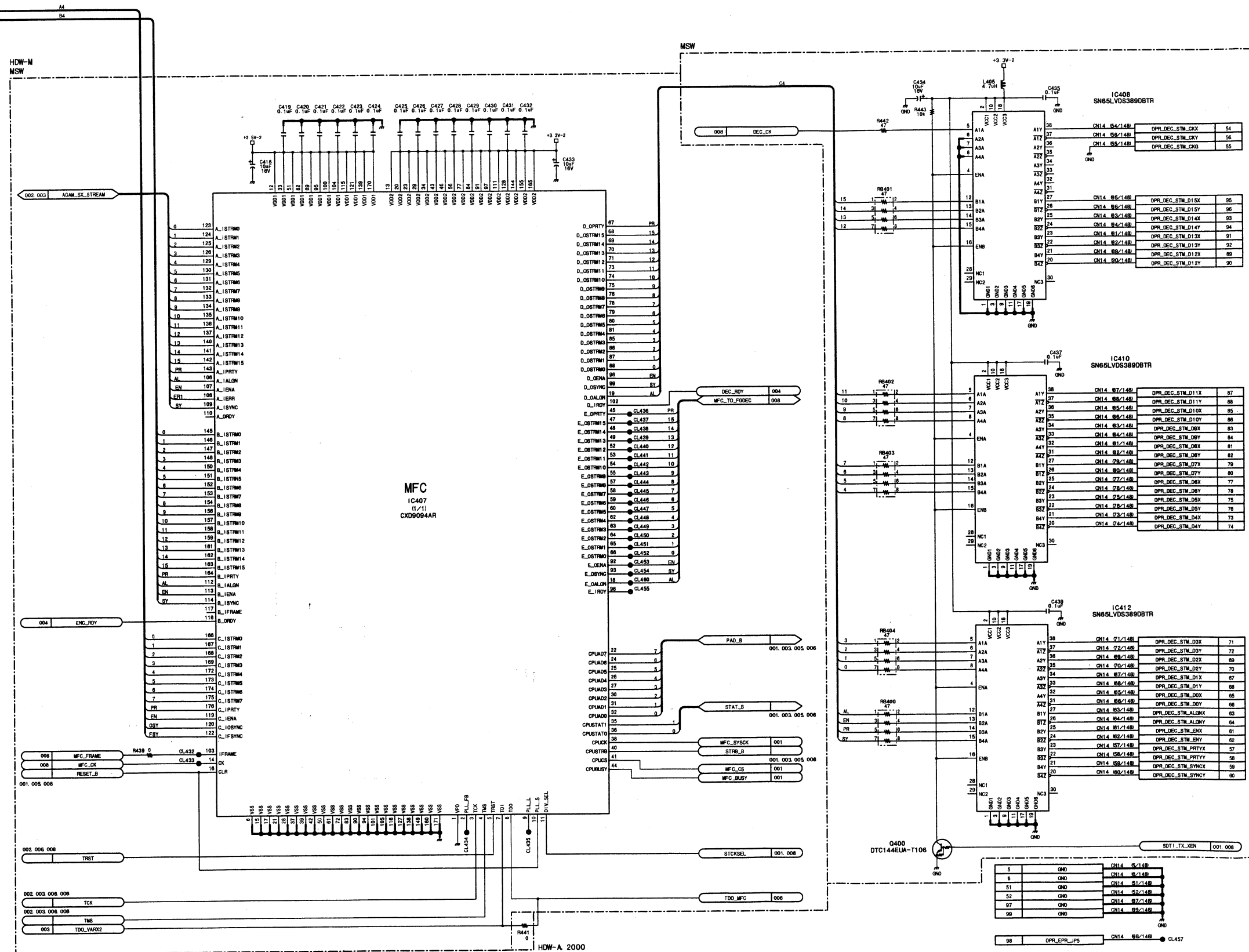
For MSW-M2000/P, M2100/P

DPR-155: LOT NO. 261-351

For MSW-A2000/P

MFV_DPR-155_108_3





Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DS)

DPR-155 (4/9)

BOARD NO. 1-677-279-13, 14

DPR-155C: LOT NO. 261-351 For MSW-2000

BOARD NO. 1-677-279-13

DPR-155H: LOT NO. 261-351 For HDW-2000, A2 100/P

DPR-155HM: LOT NO. 261-351 For HDW-M2000/P, M22 100/P

DPR-155M: LOT NO. 261-351 For MSW-M2000/P, M22 100/P

DPR-155: LOT NO. 261-351 For MSW-A2000/P

MFV_DPR-155_108_4

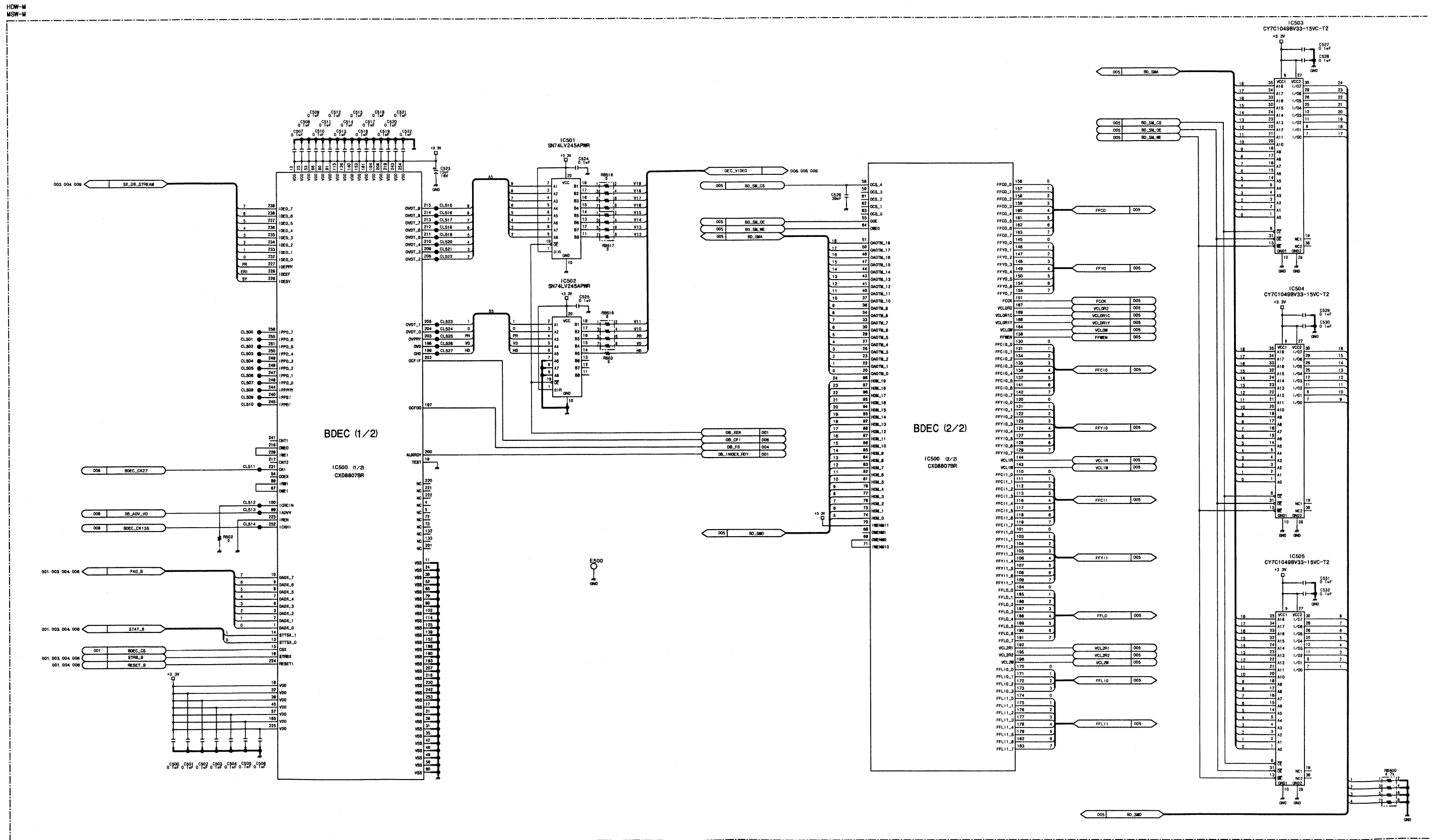
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2

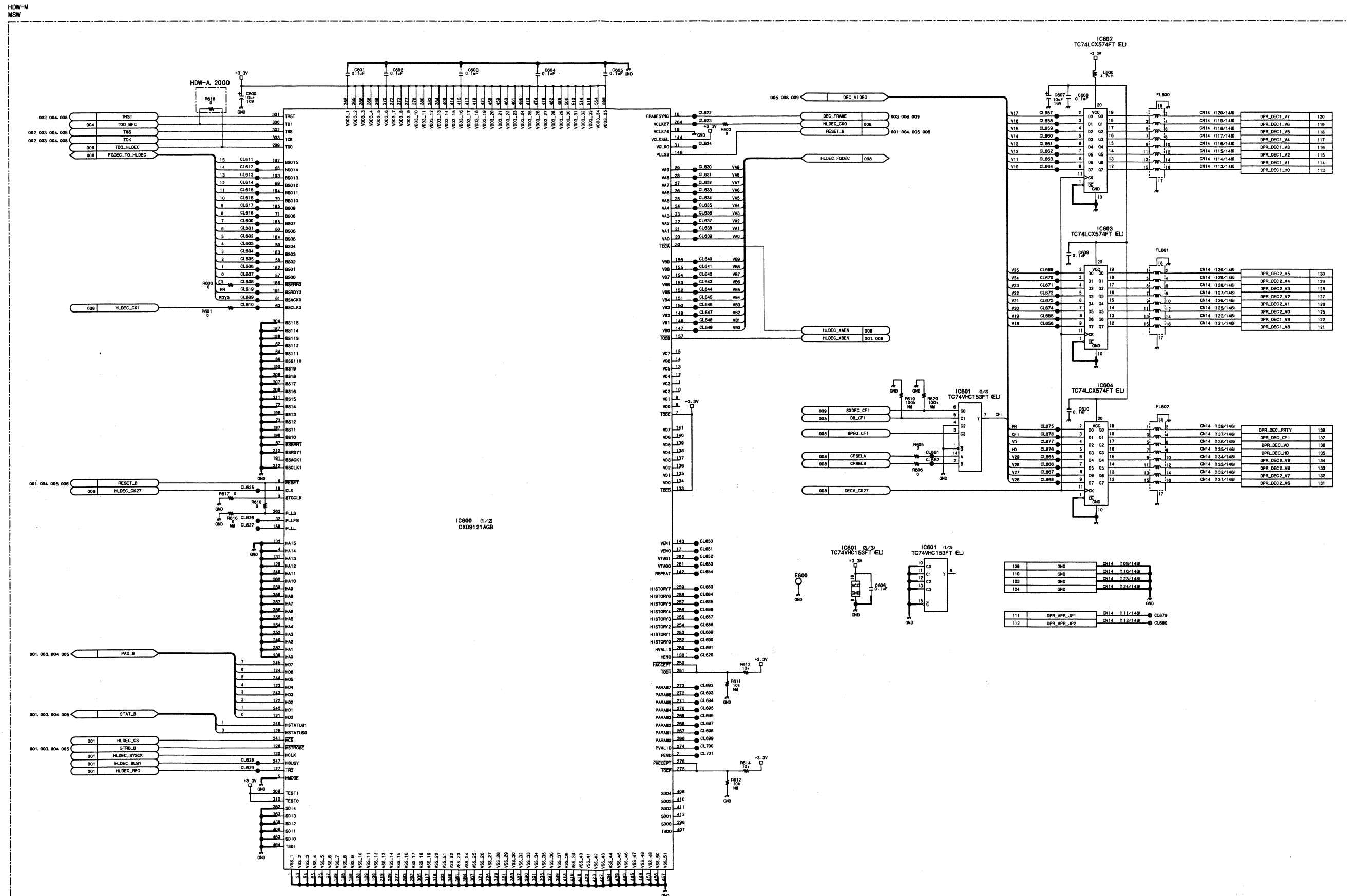
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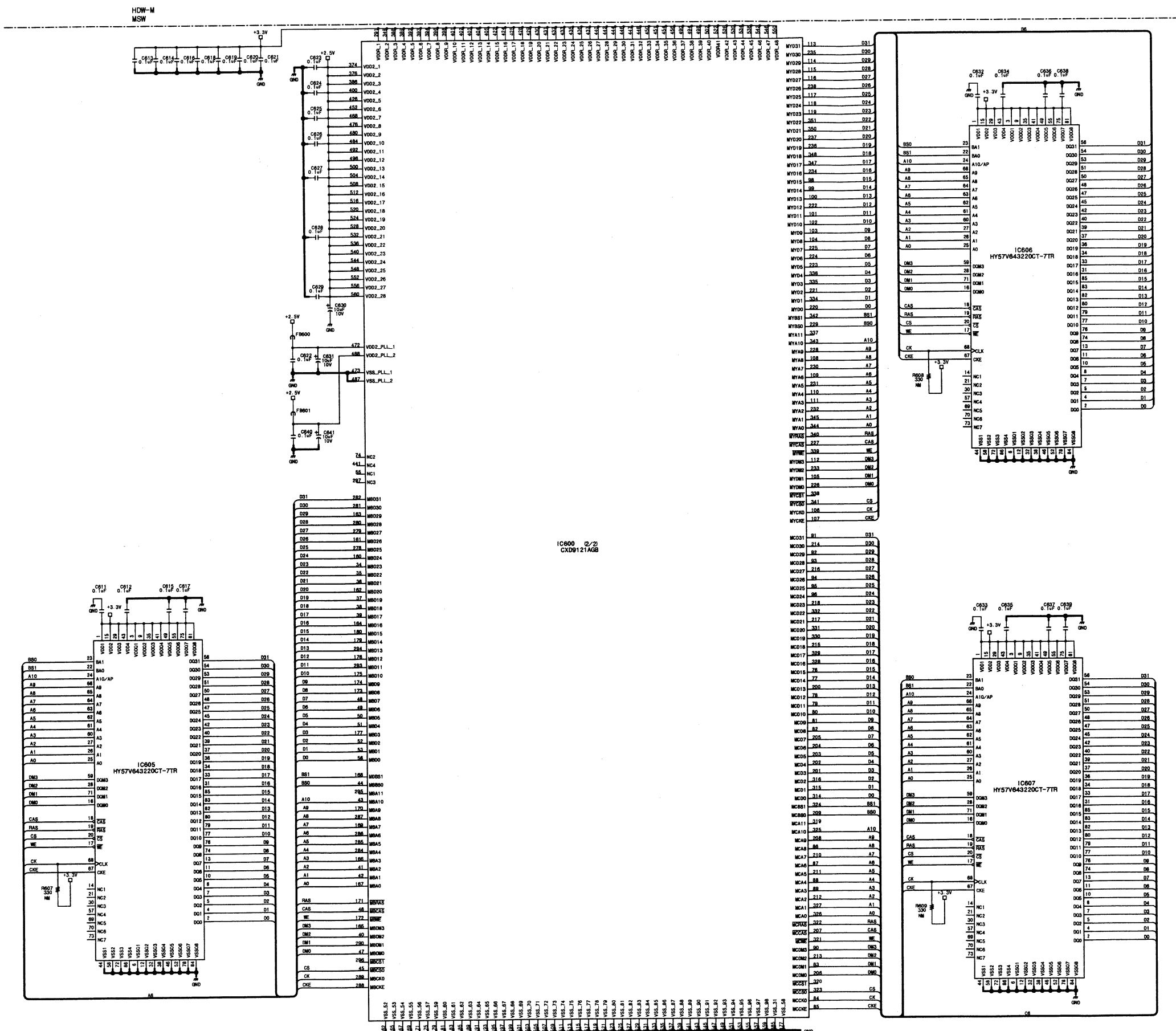
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5









Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-155 (6/9)

BOARD NO. 1-677-279-13, 14
DPR-155C: LOT NO. 261- For MSW-2000
BOARD NO. 1-677-279-13
DPR-155H: LOT NO. 261-351 For HDW-2000, A2100
DPR-155HM: LOT NO. 261-351 For HDW-M2000/P, 12100/P
DPR-155M: LOT NO. 261-351 For MSW-M2000/P, 12100/P
DPR-155: LOT NO. 261-351 For MSW-A2000/P

MFV-DPR-155_108_6

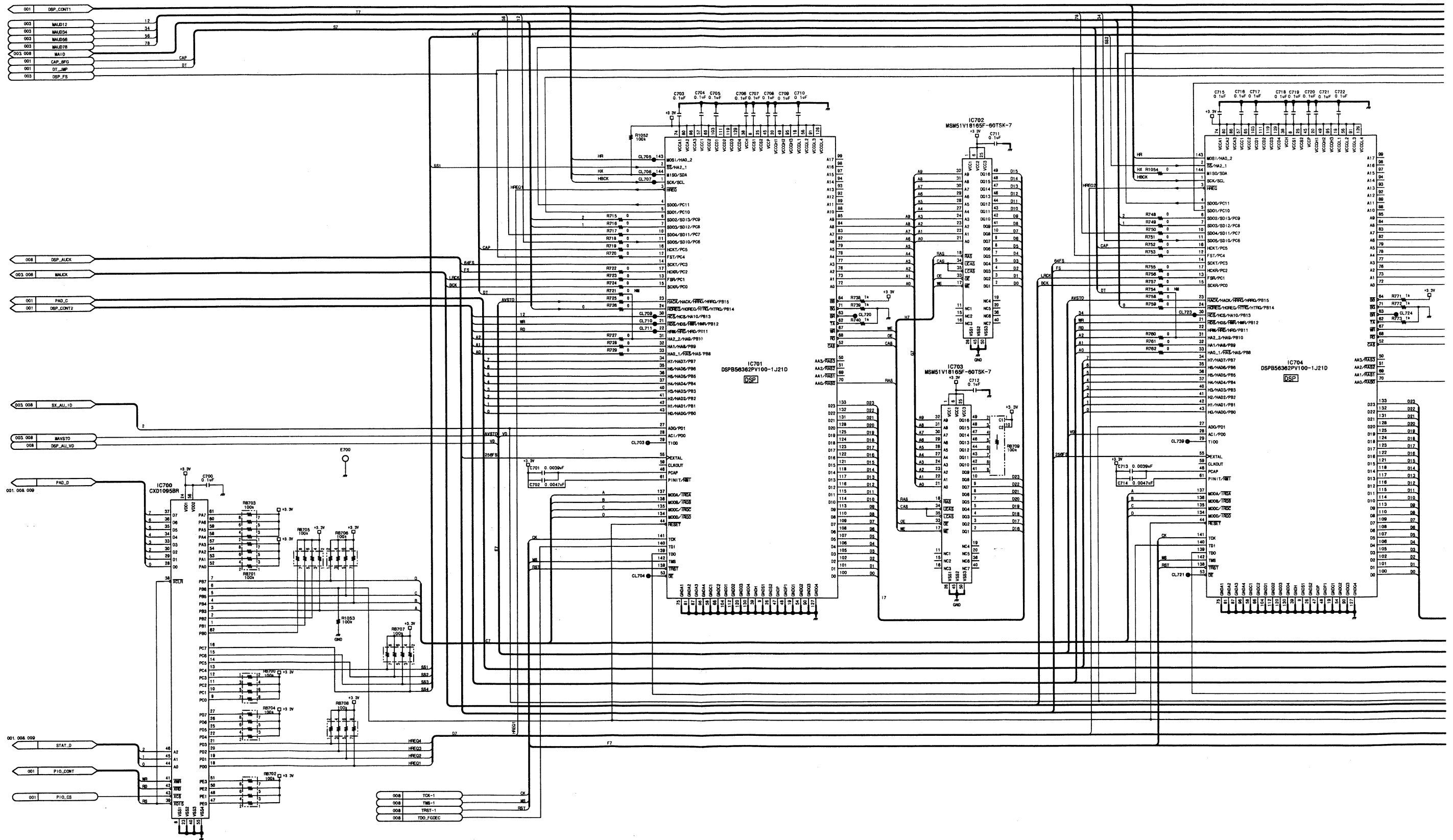
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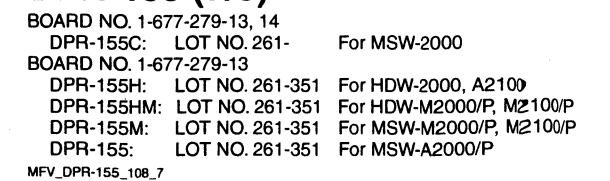
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3

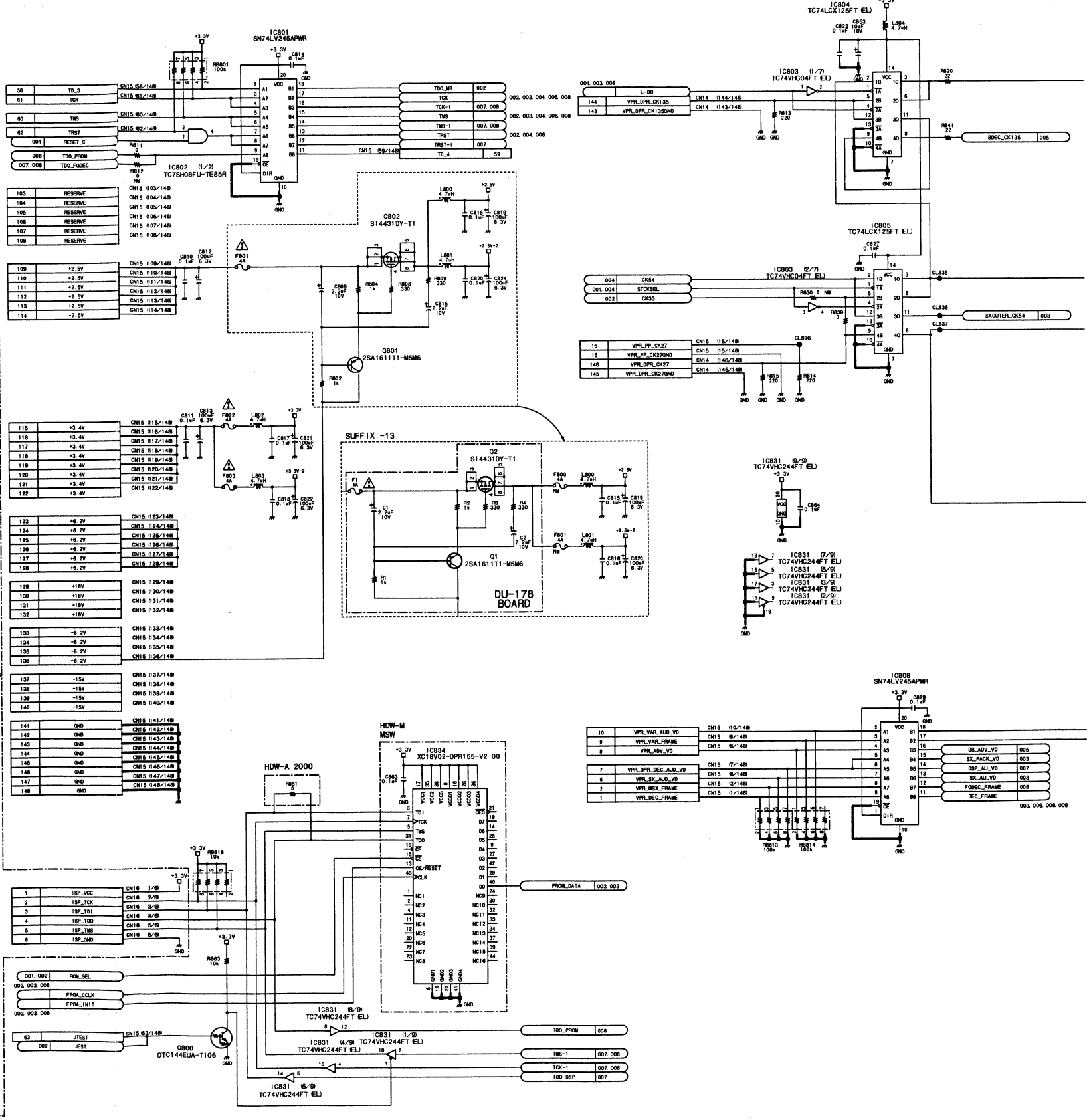
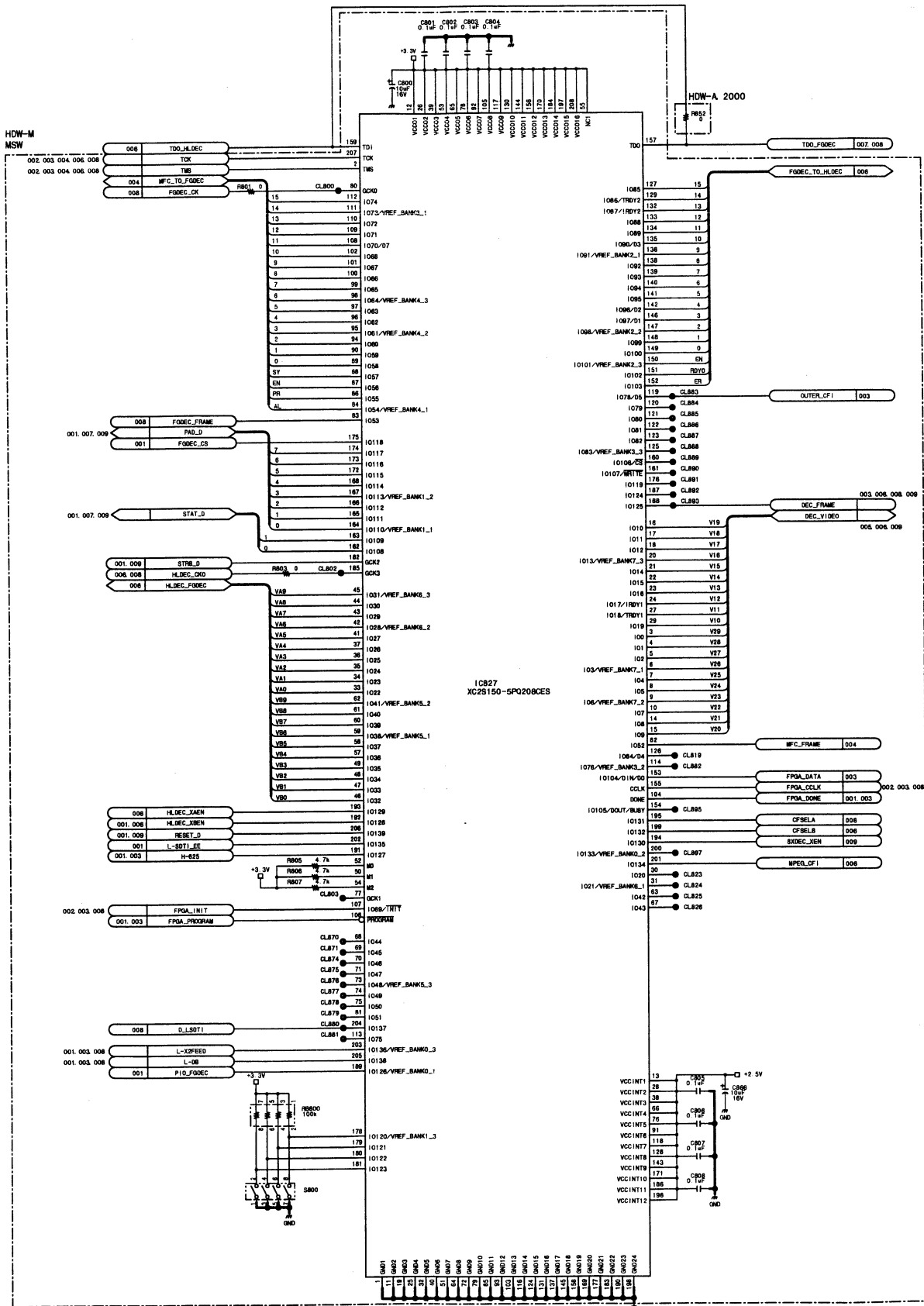
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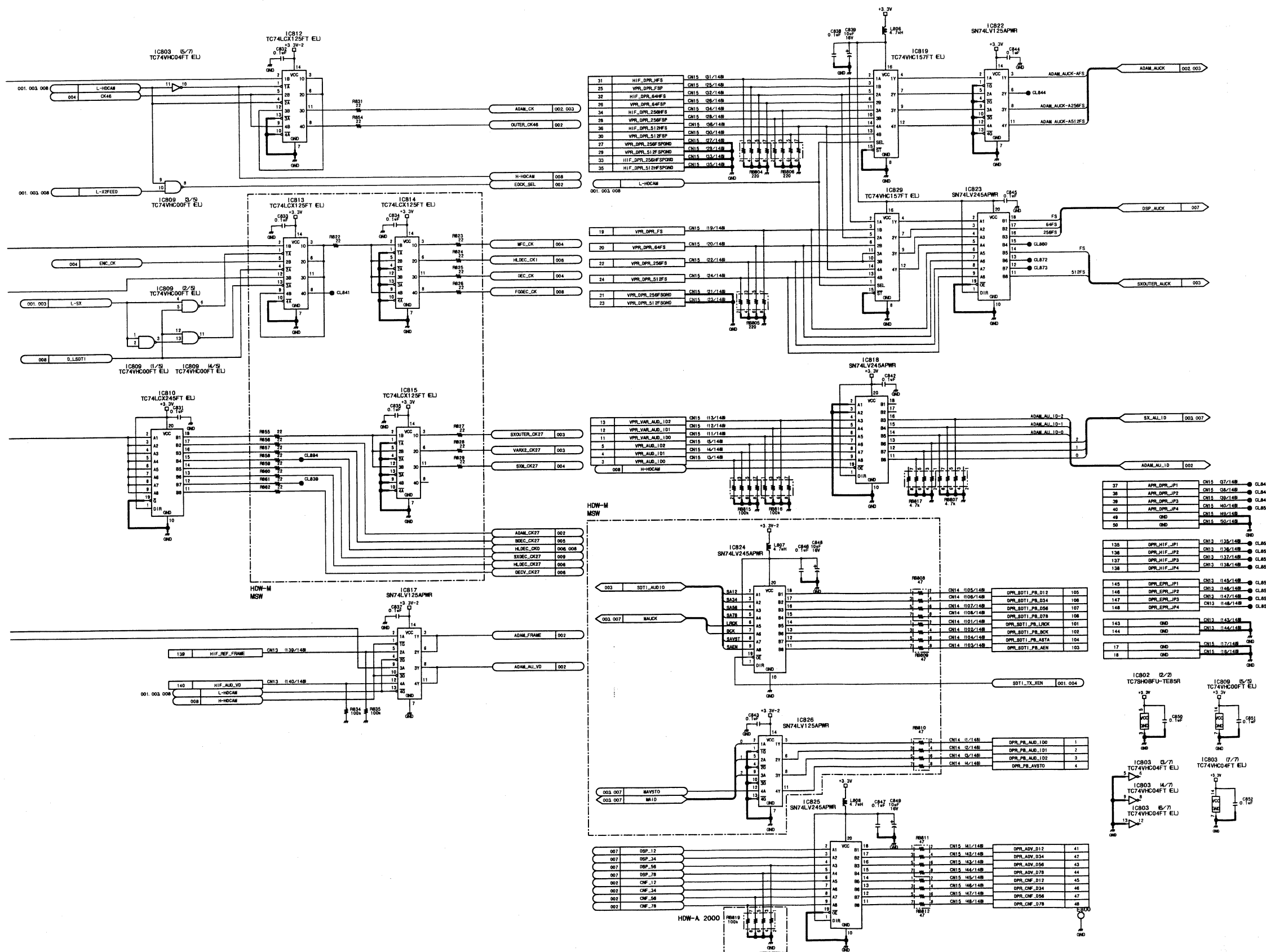
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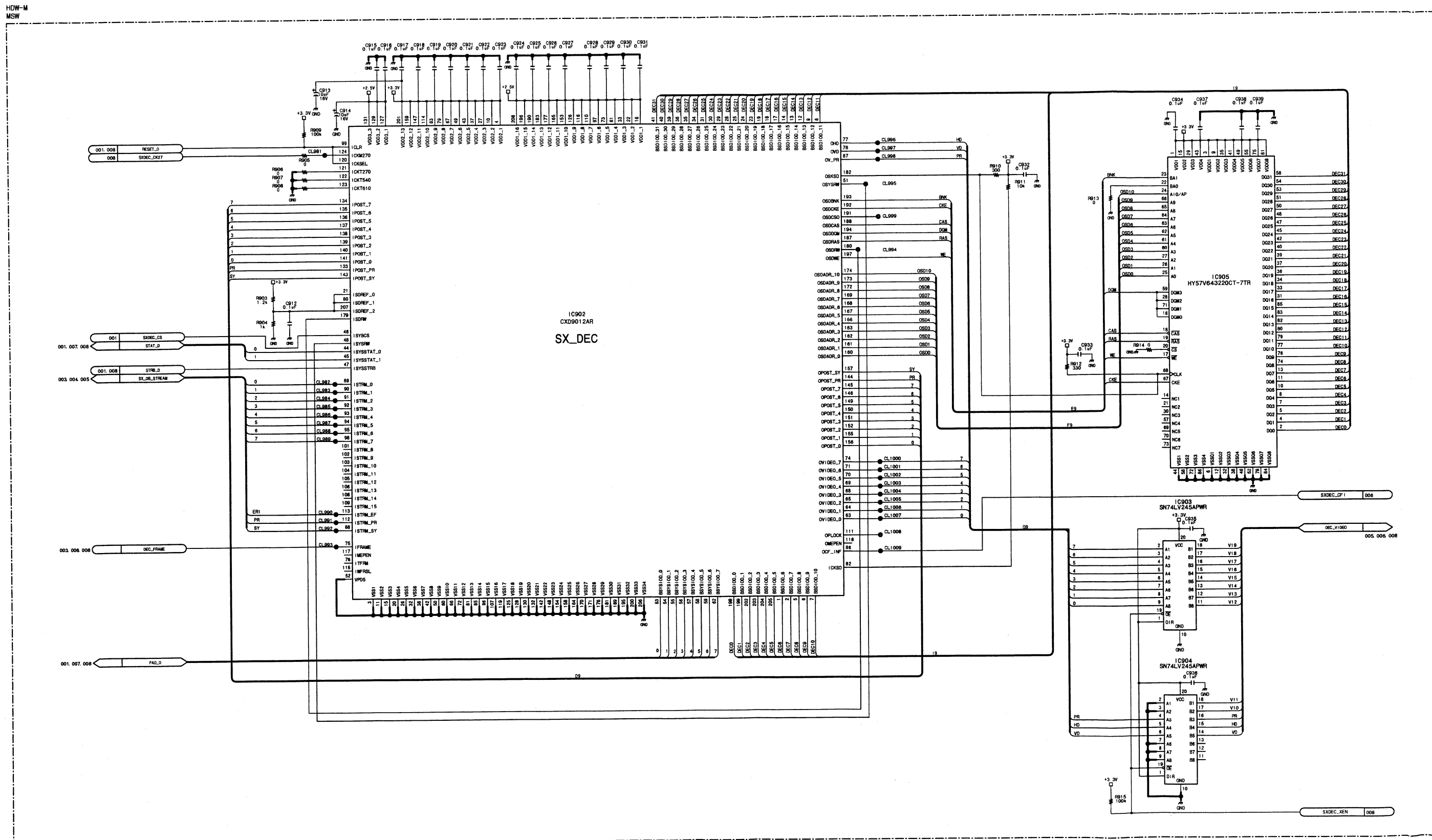
1
2
3
4
5





Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)
DPR-155 (8/9)
BOARD NO. 1-677-279-13, 14
DPR-155C: LOT NO. 261- For MSW-2000
BOARD NO. 1-677-279-13
DPR-155H: LOT NO. 261-351 For HDW-2000, A2100
DPR-155HM: LOT NO. 261-351 For HDW-M2000/P, M2100/P
DPR-155M: LOT NO. 261-351 For MSW-M2000/P, M2100/P
DPR-155: LOT NO. 261-351 For MSW-A2000/P
MFV-DPR-155_108_8





Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DS)
DPR-155 (9/9)
BOARD NO. 1-677-279-13, 14
DPR-155C: LOT NO. 261- For MSW-2000
BOARD NO. 1-677-279-13
DPR-155H: LOT NO. 261-351 For HDW-2000, A2100
DPR-155HM: LOT NO. 261-351 For HDW-M2000/P, A2100/P
DPR-155M: LOT NO. 261-351 For MSW-M2000/P, A2100/P
DPR-155: LOT NO. 261-351 For MSW-A2000/P
MFV_DPR-155_108_9

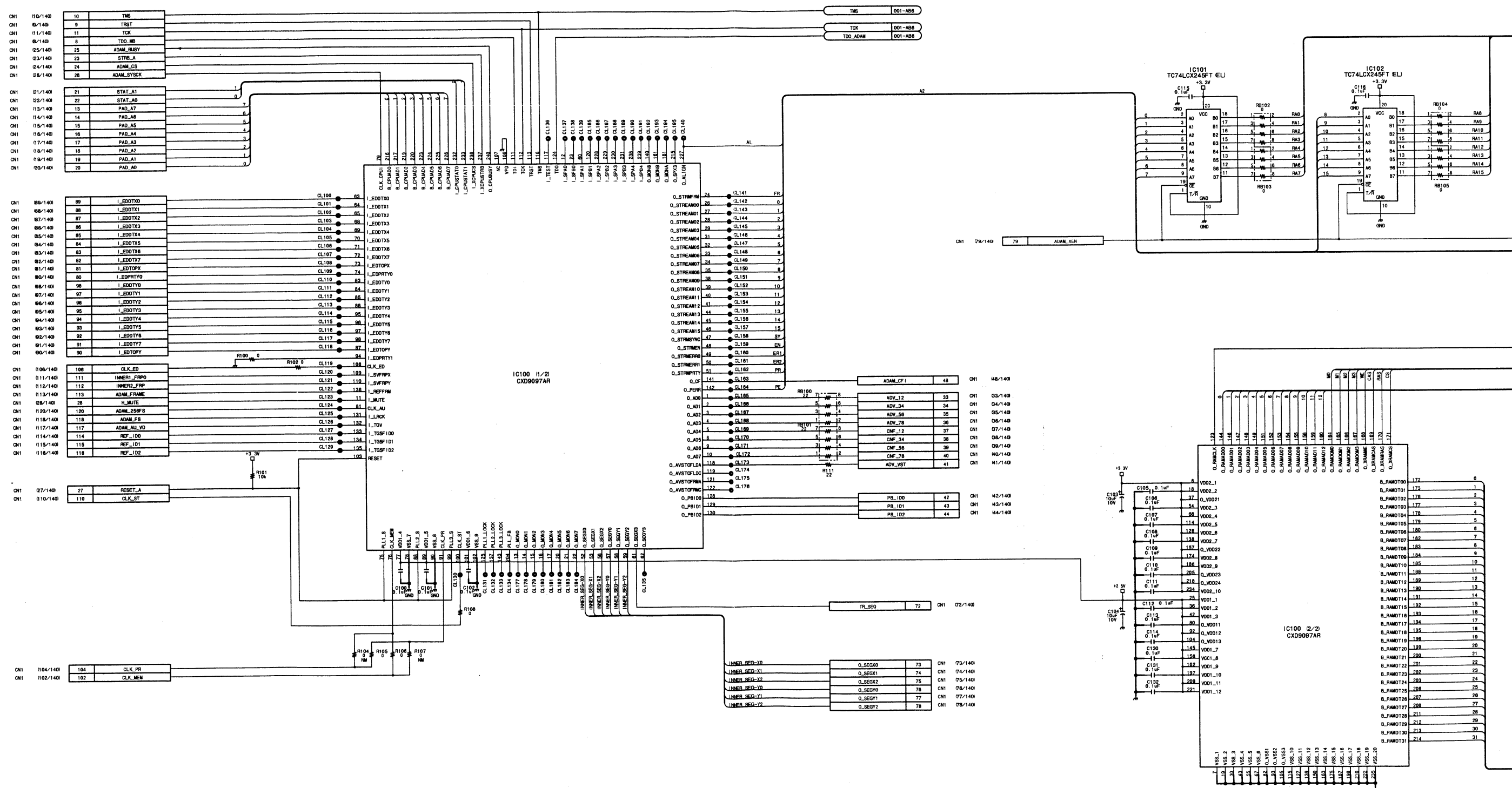
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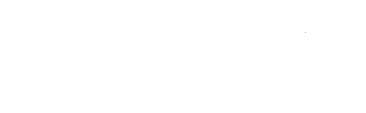
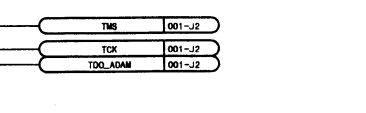
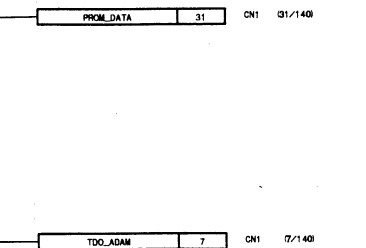
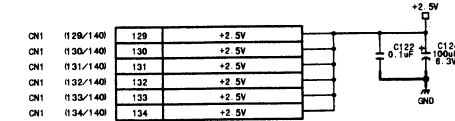
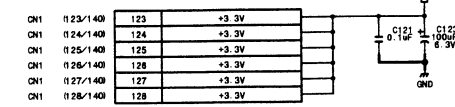
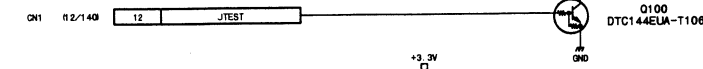
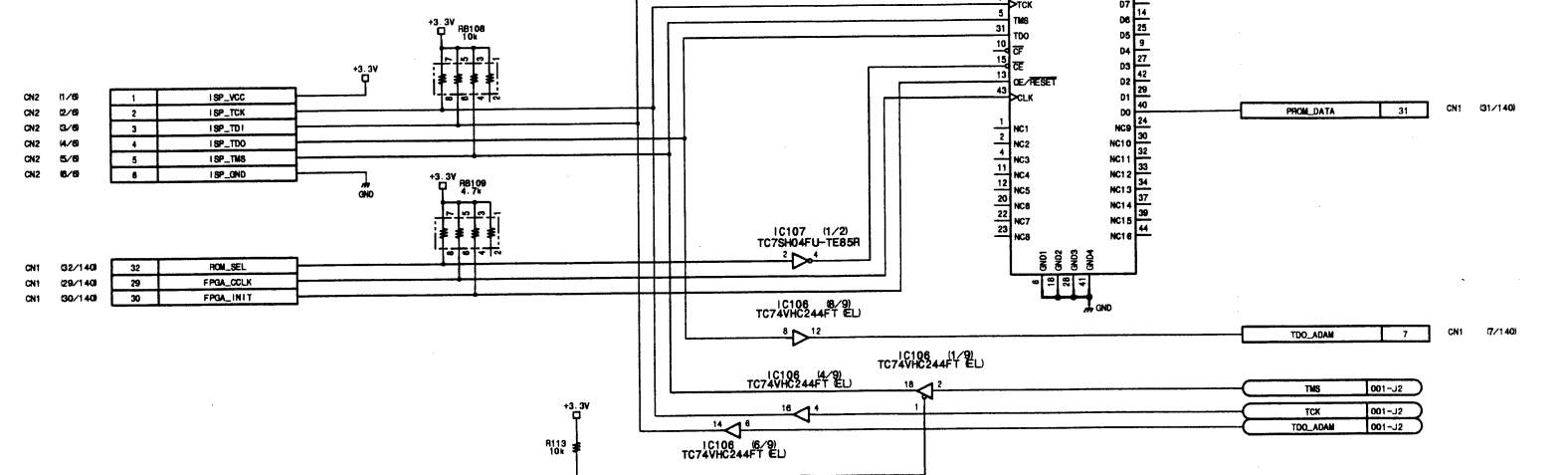
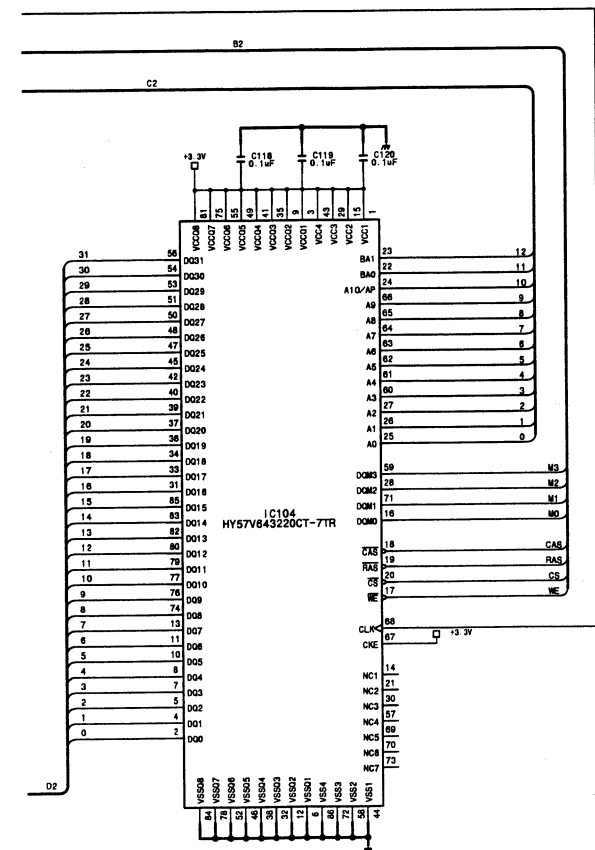
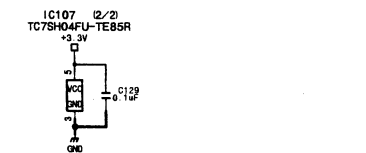
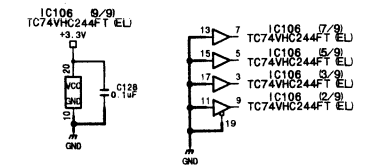
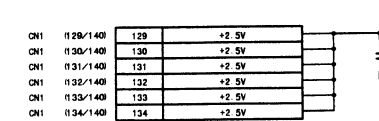
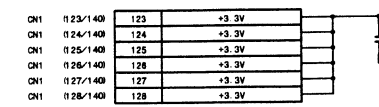
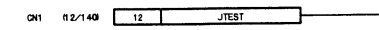
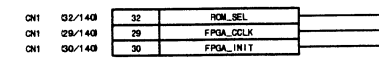
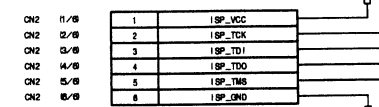
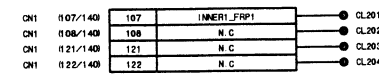
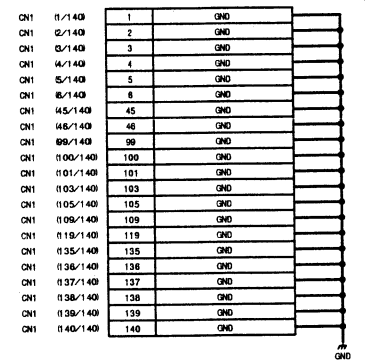
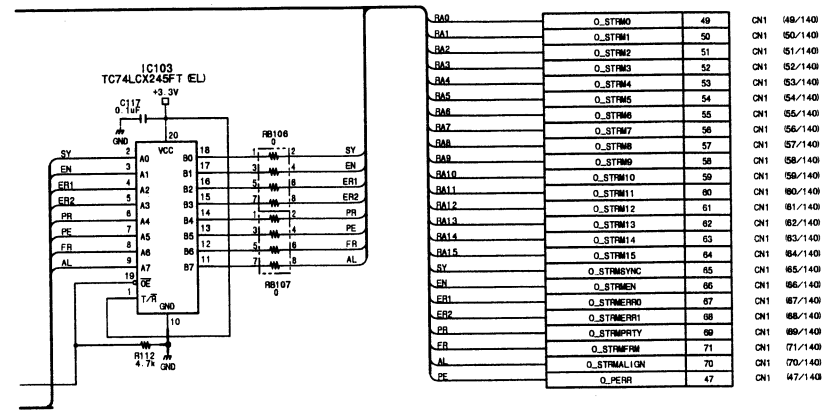
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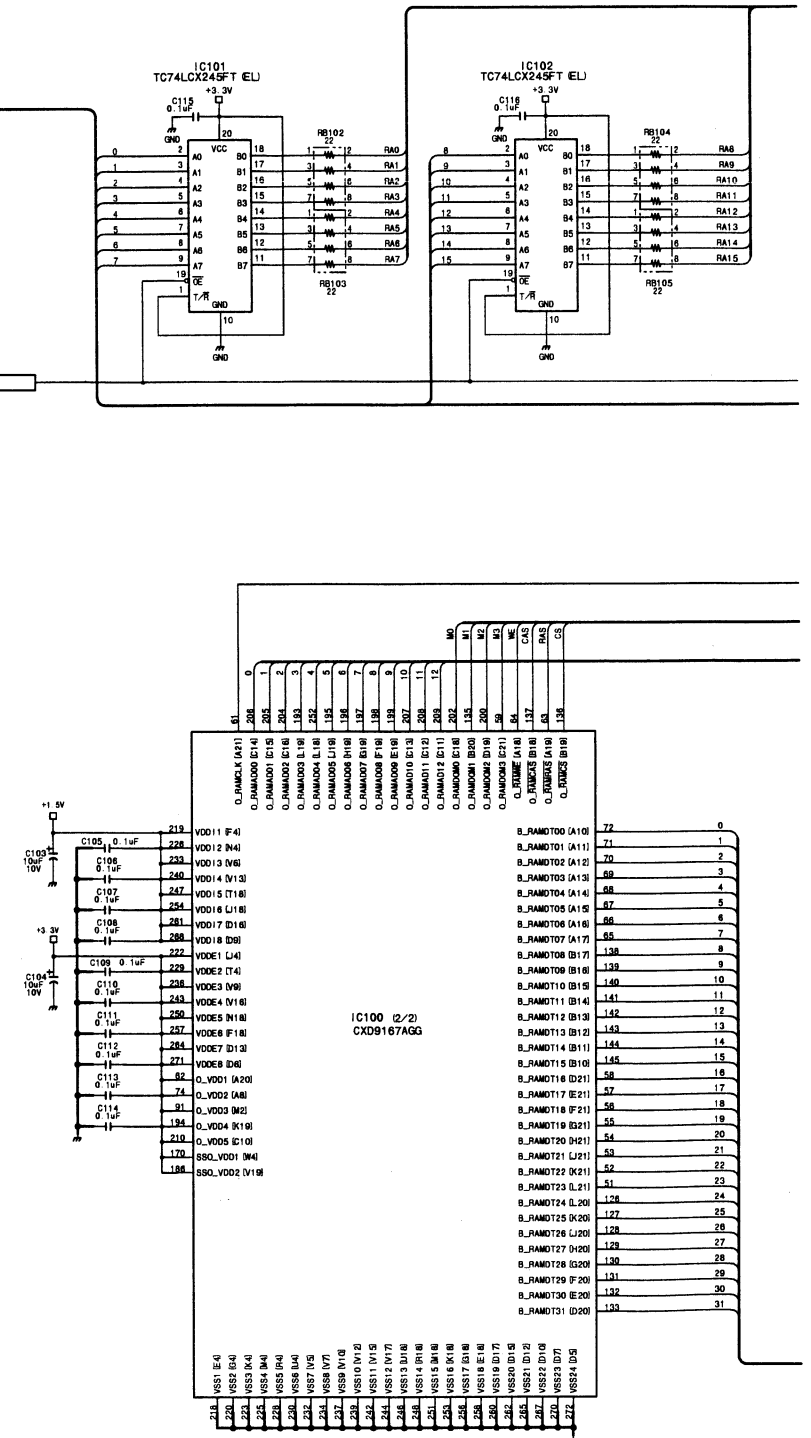
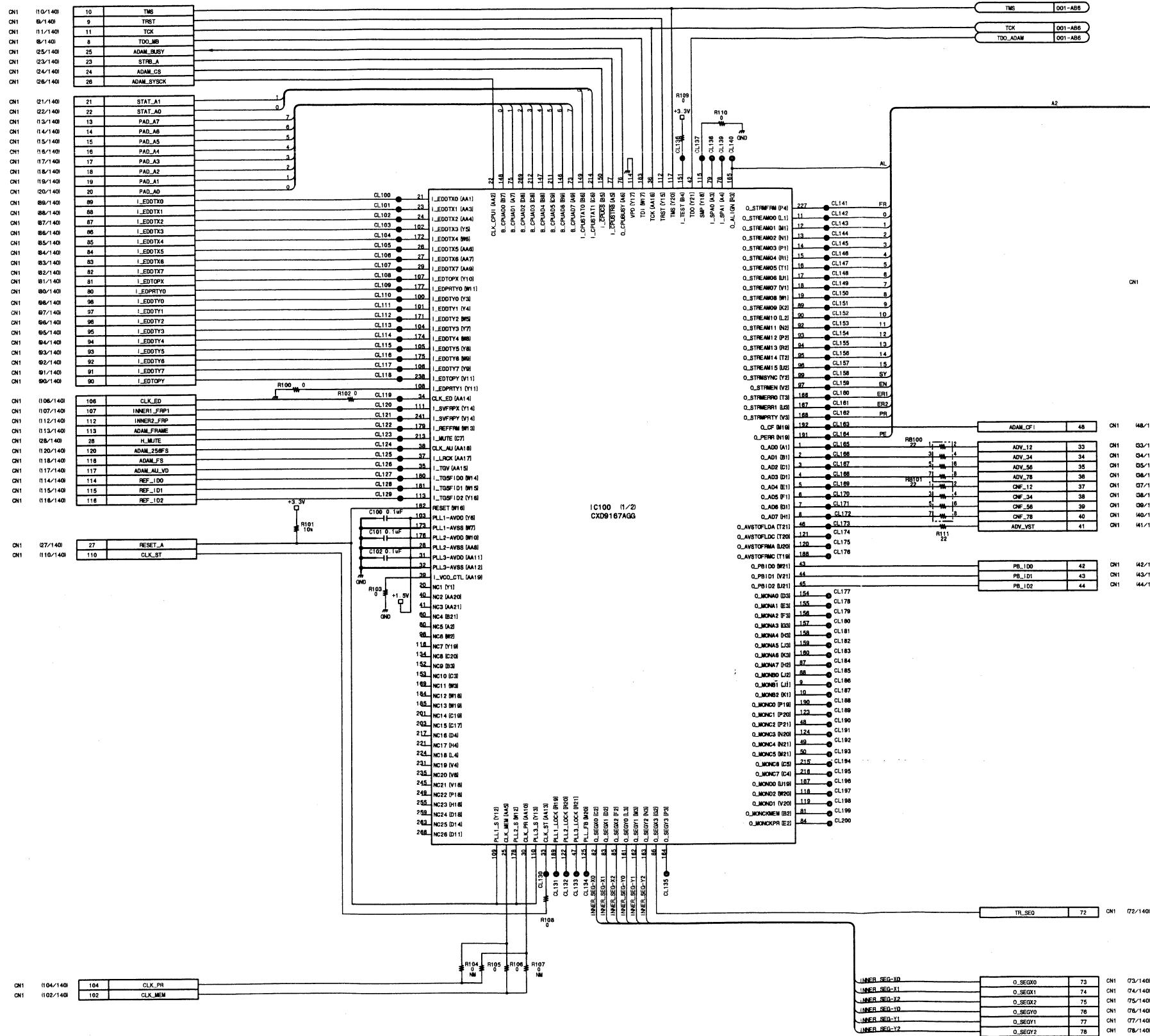
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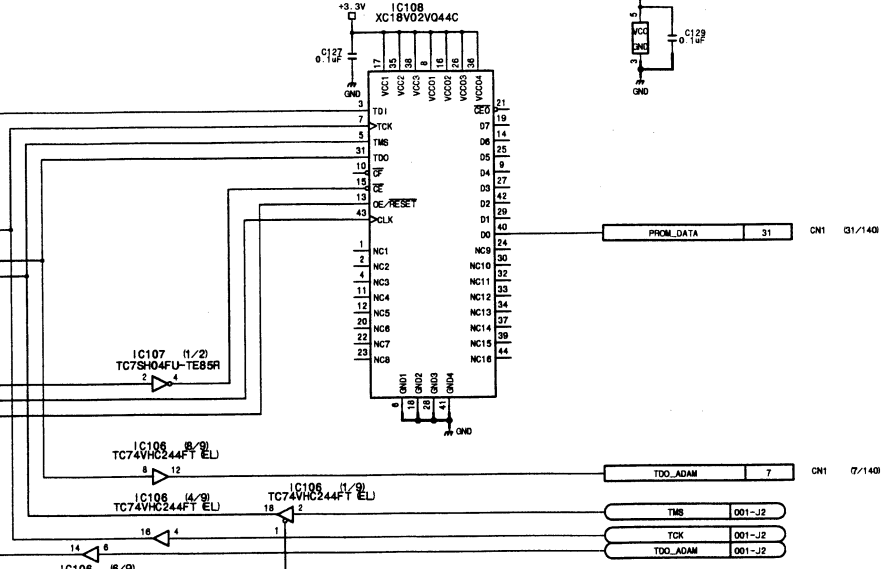
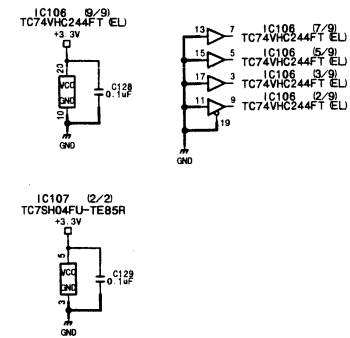
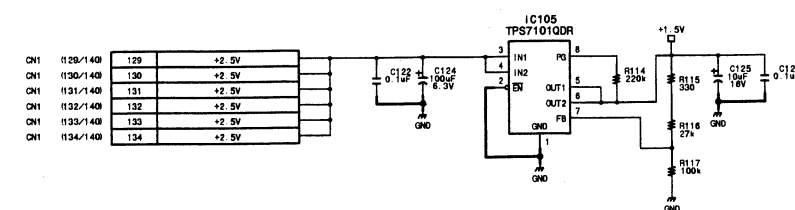
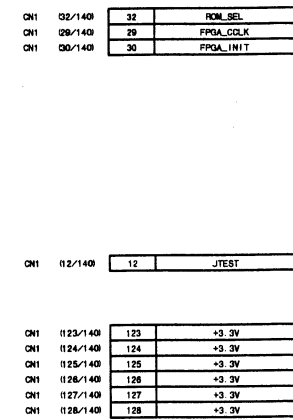
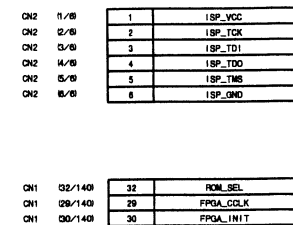
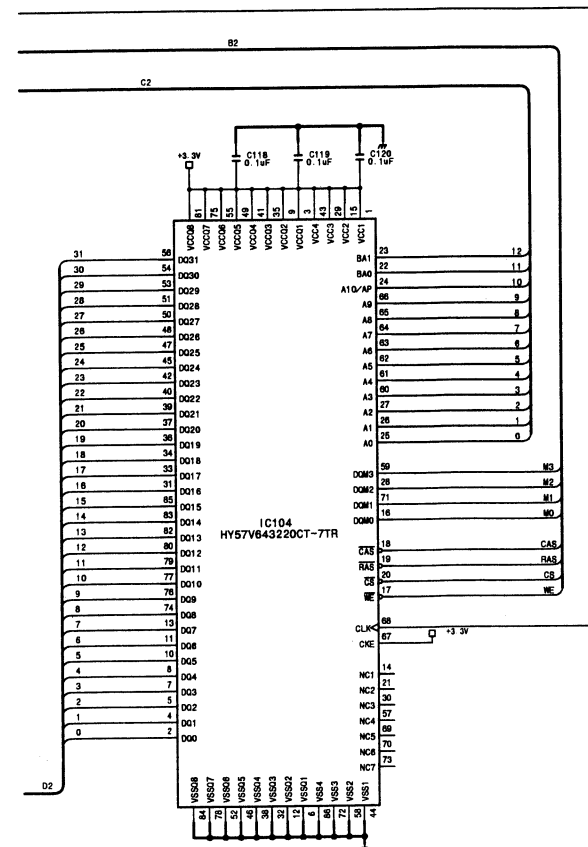
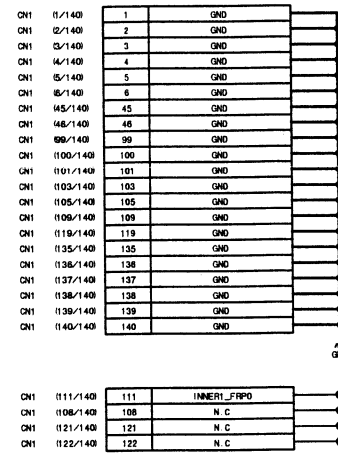
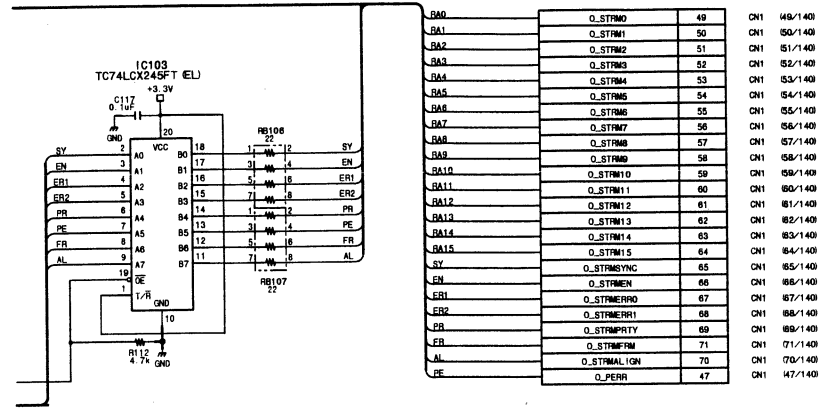
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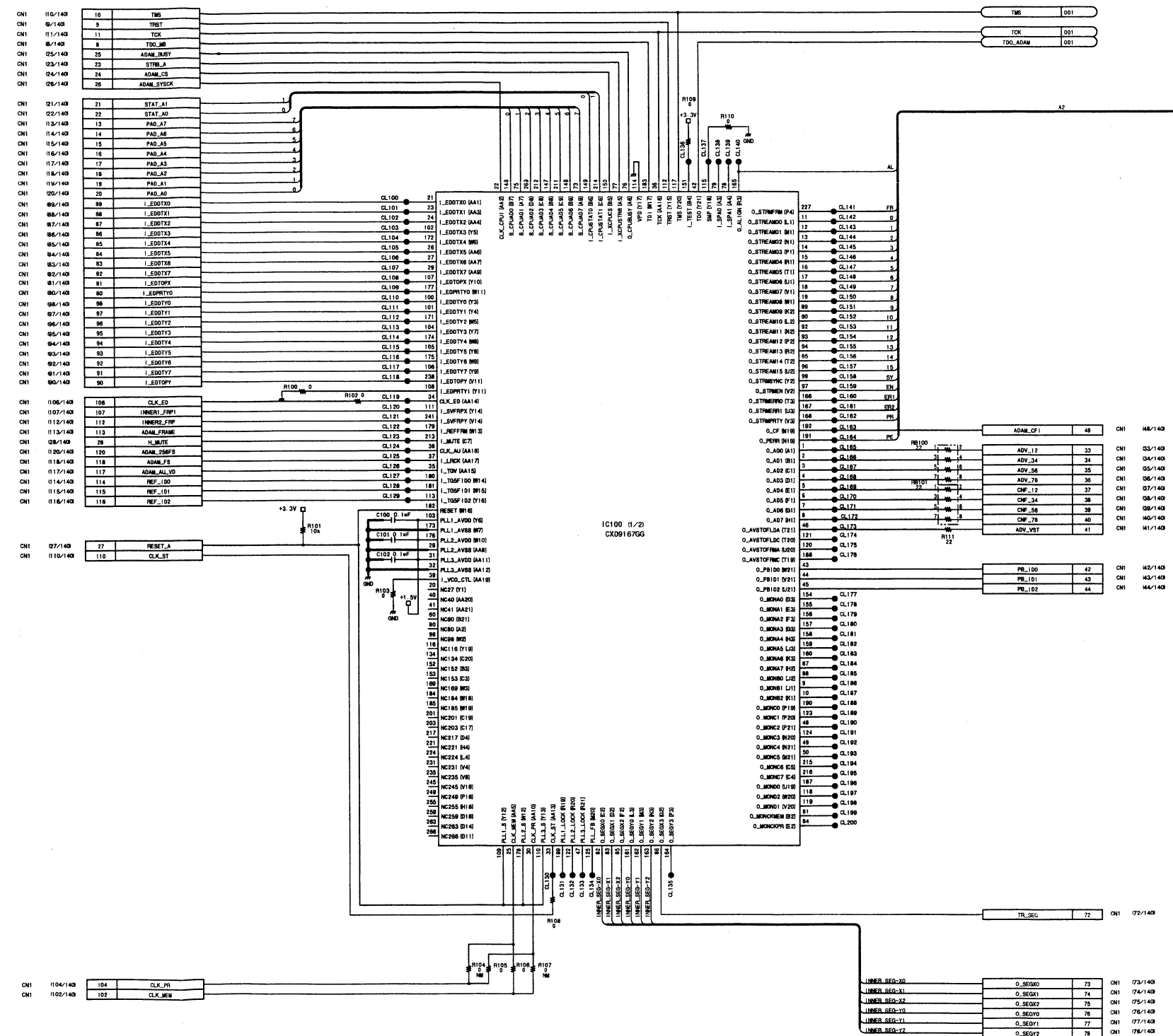
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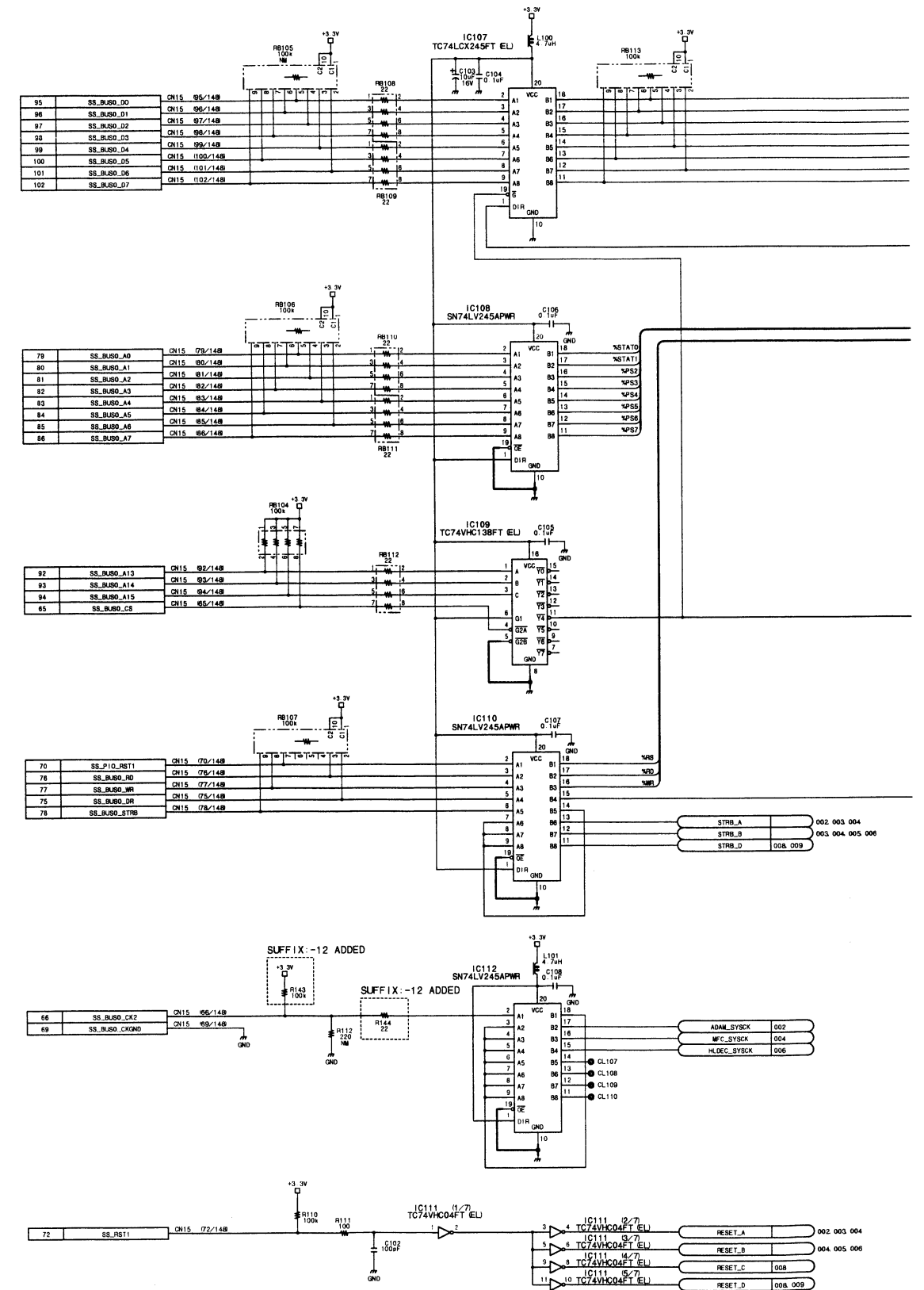
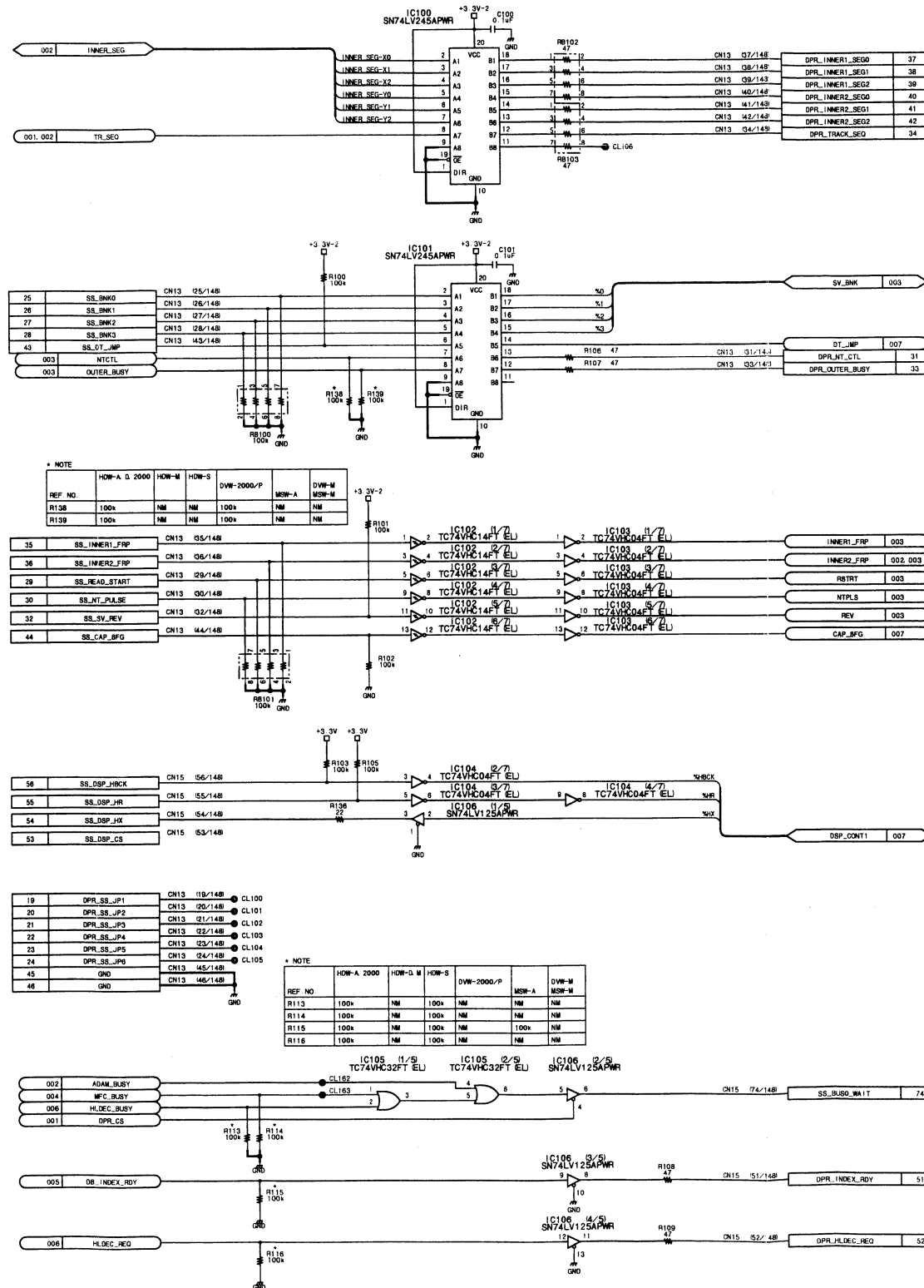
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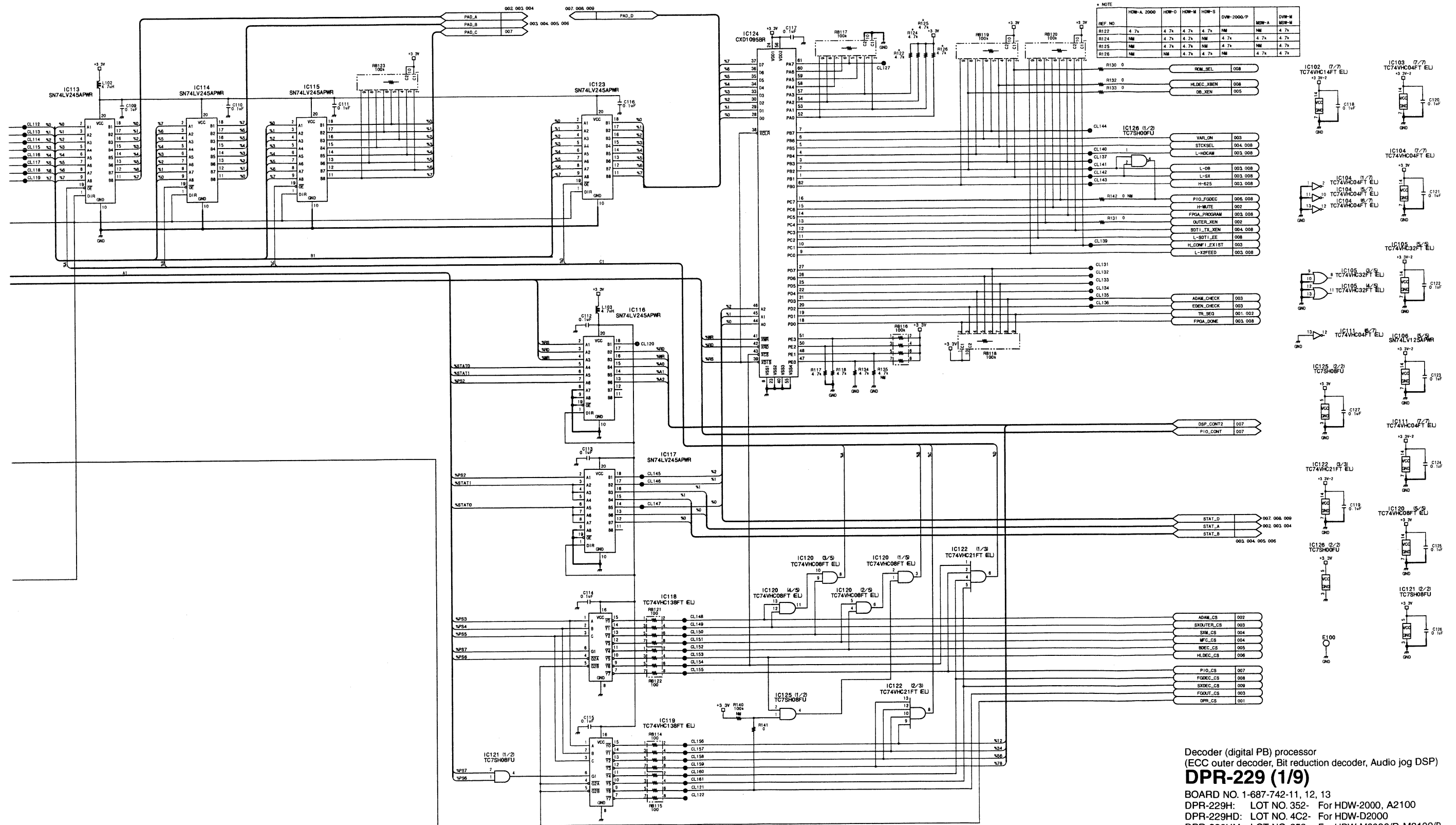




ECC outer decoder
DPR-195
 BOARD NO. 1-680-648-11
 DPR-195H: LOT NO. 261-351 For HDW-2000, M2000/P, M210/P, A2100
 HDW-A2100_DPR-195_101_1







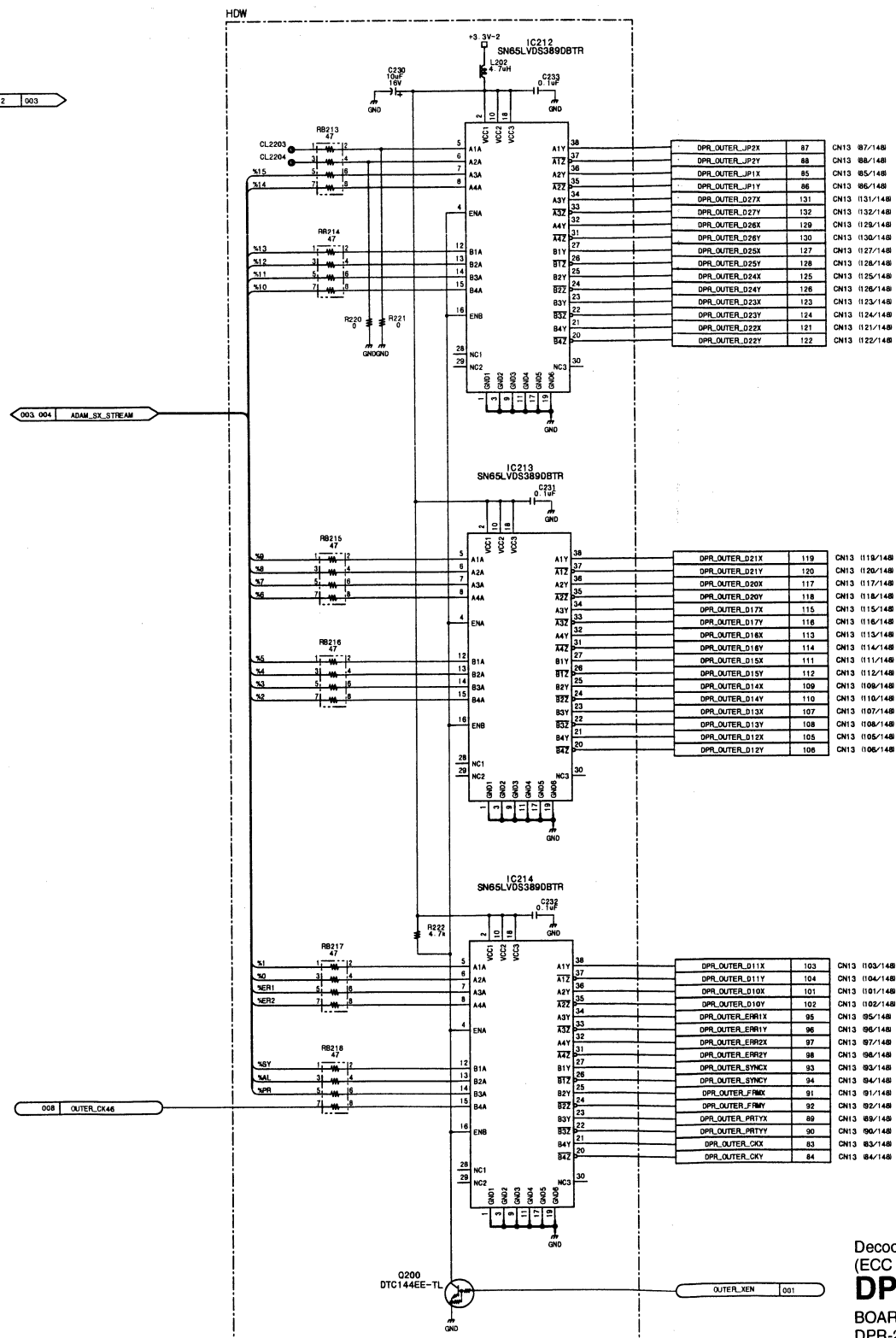
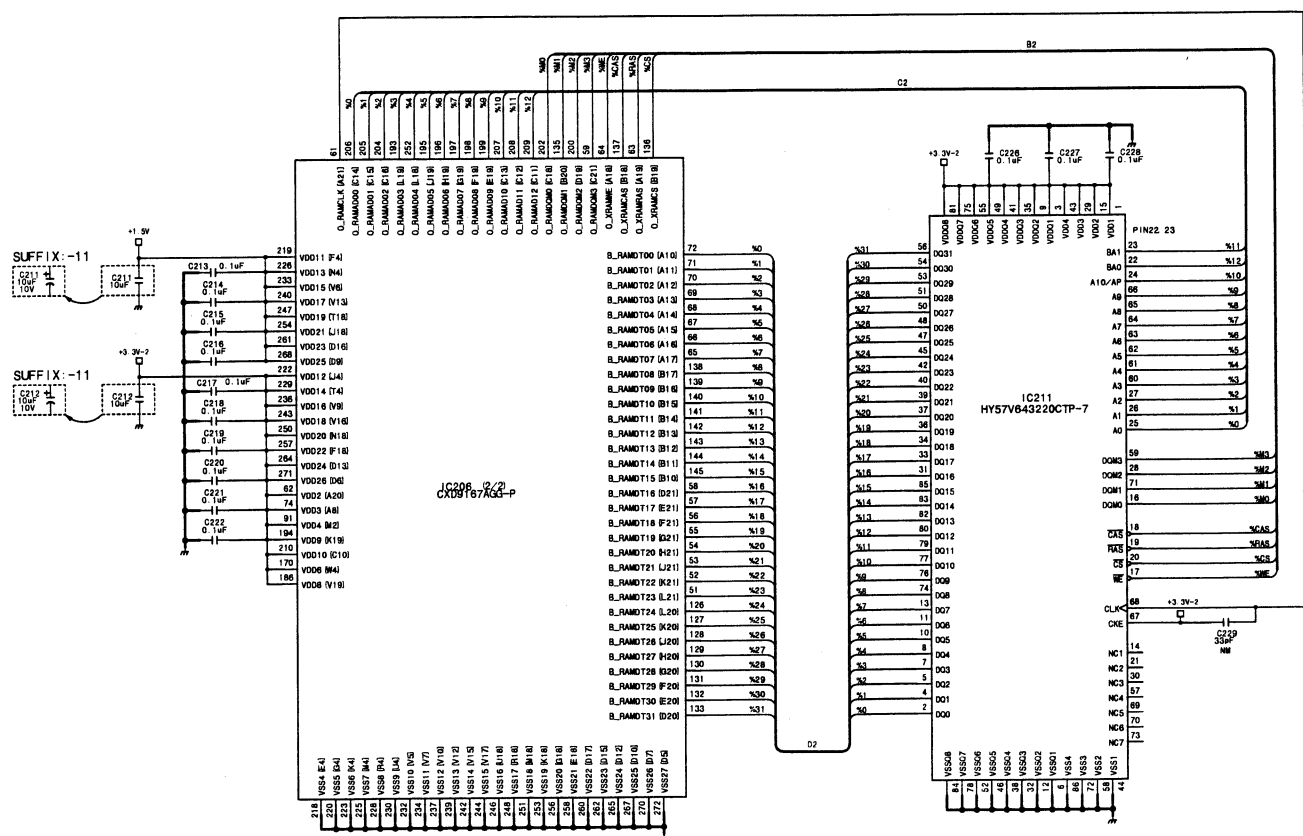
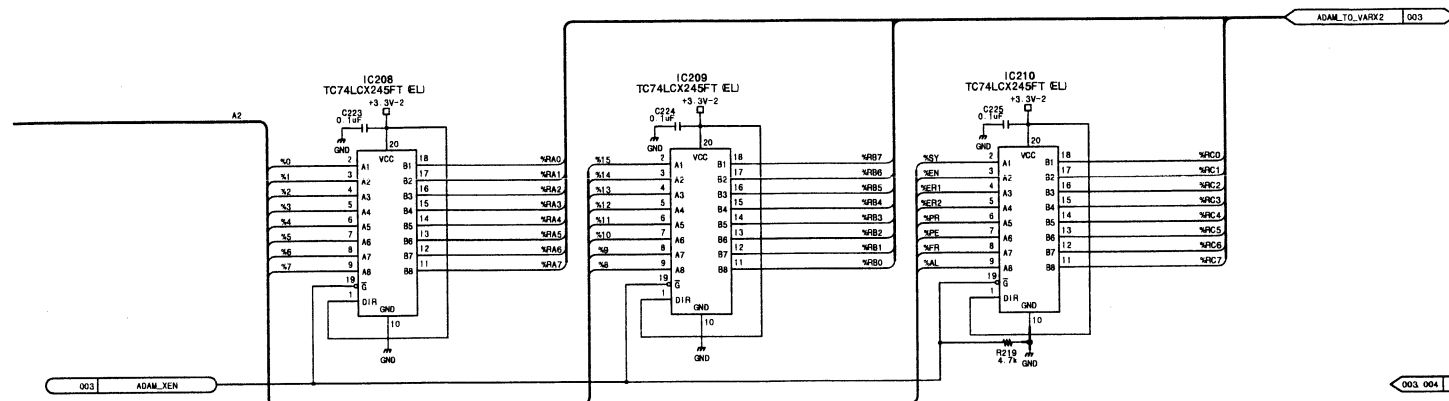
Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-229 (1/9)

BOARD NO. 1-687-742-11, 12, 13

DPR-229H: LOT NO. 352- For HDW-2000, A2100
DPR-229HD: LOT NO. 4C2- For HDW-D2000
DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2100/P
DPR-229HS: LOT NO. 462- For HDW-S2000/P
DPR-229D: LOT NO. 434- For DVW-2000/P
DPR-229M: LOT NO. 434- For DVW-M2000/P
LOT NO. 352- For MSW-M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
DPR-229: LOT NO. 352- For MSW-A2000/P

MFV7-DPR-229_11P_1



47	DPR_EQ_IP1	CN13 47/148	CL2205
48	DPR_EQ_IP2	CN13 48/148	CL2206
49	DPR_EQ_IP3	CN13 49/148	CL2207
50	DPR_EQ_IP4	CN13 50/148	CL2208

79	DPR_HPR_IP1	CN13 79/148	CL2209
80	DPR_HPR_IP2	CN13 80/148	CL2210
81	DPR_HPR_IP3	CN13 81/148	CL2211
82	DPR_HPR_IP4	CN13 82/148	CL2212

75	GND	CN13 75/148	
76	GND	CN13 76/148	
99	GND	CN13 99/148	
100	GND	CN13 100/148	
133	GND	CN13 133/148	
134	GND	CN13 134/148	

77	DPR_AUD_PB_012	CN13 77/148	CL2213
78	DPR_AUD_PB_034	CN13 78/148	CL2214

Decoder (digital PB) processor (ECC outer decoder, Bit reduction decoder, Audio jog DSP) DPR-229 (2/9)

BOARD NO. 1-687-742-11, 12, 13
 DPR-229H: LOT NO. 352- For HDW-2000, A2100
 DPR-229HD: LOT NO. 4C2- For HDW-D2000
 DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2100/P
 DPR-229HS: LOT NO. 462- For HDW-S2000/P
 DPR-229D: LOT NO. 434- For DVW-2000/P
 DPR-229M: LOT NO. 434- For DVW-M2000/P
 LOT NO. 352- For MSW-M2000/P, M2100/P
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 LOT NO. 352- For MSW-A2000/P

DPR-229:
 MFV7_DPR-229_11P_2

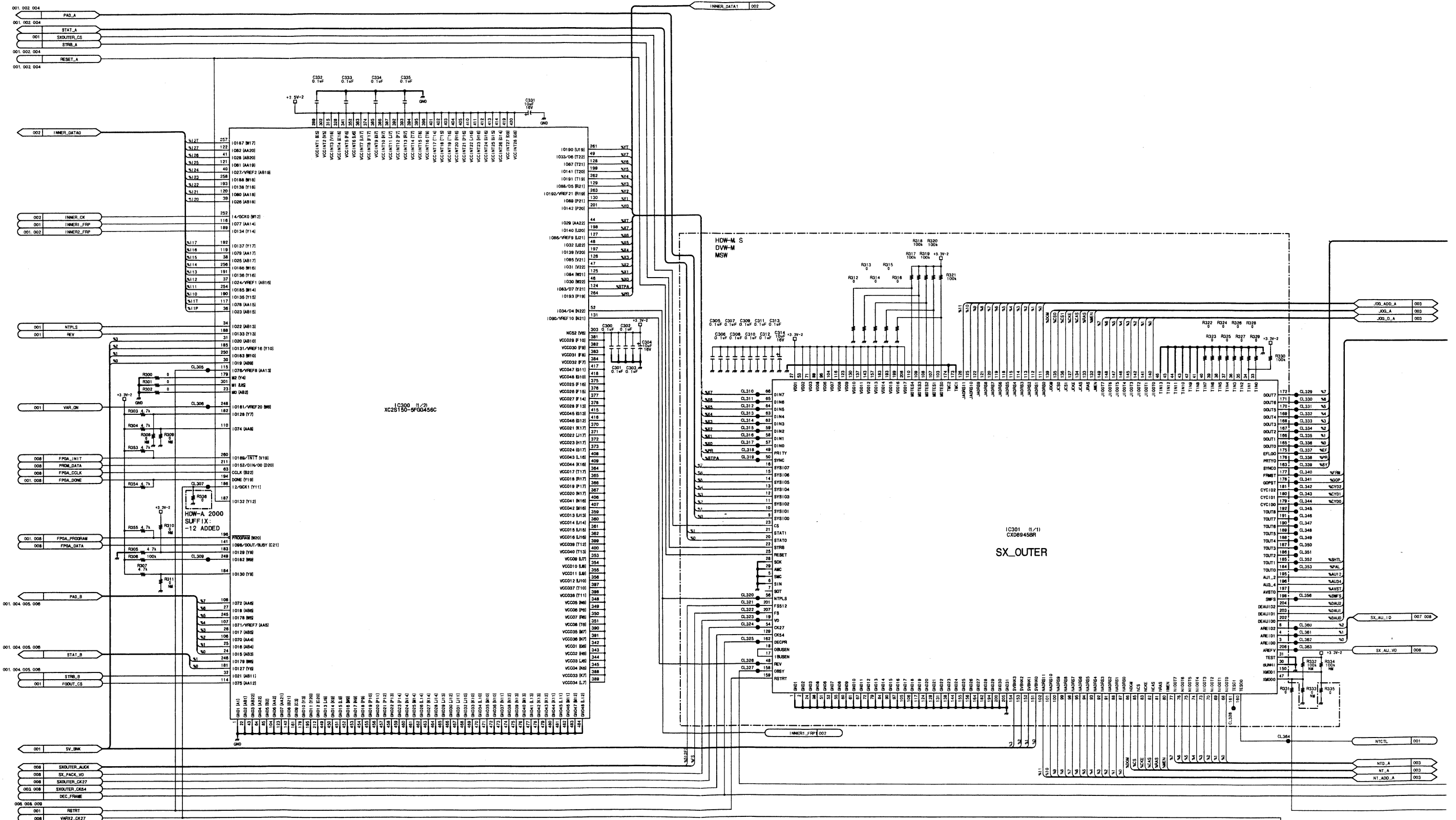
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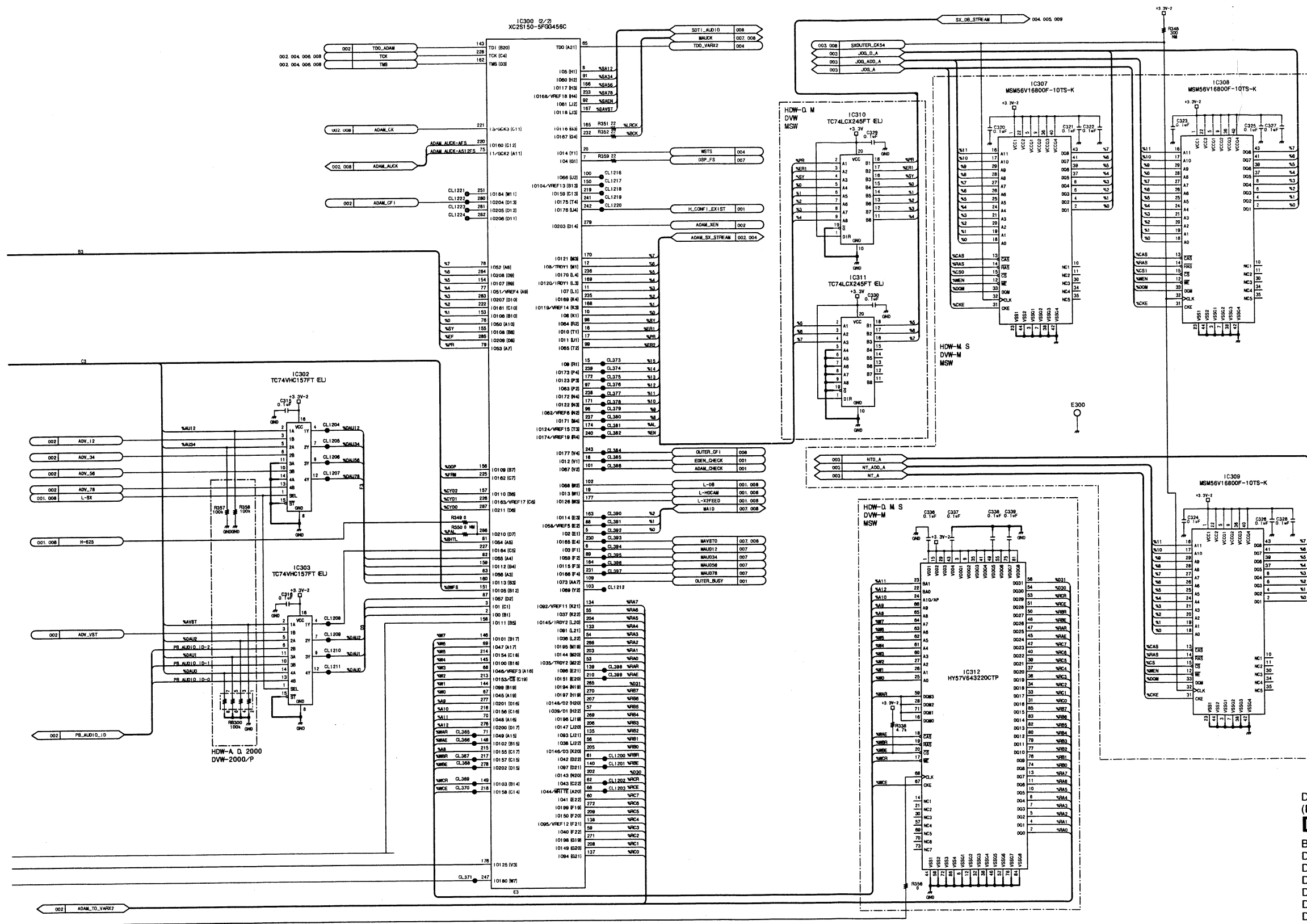
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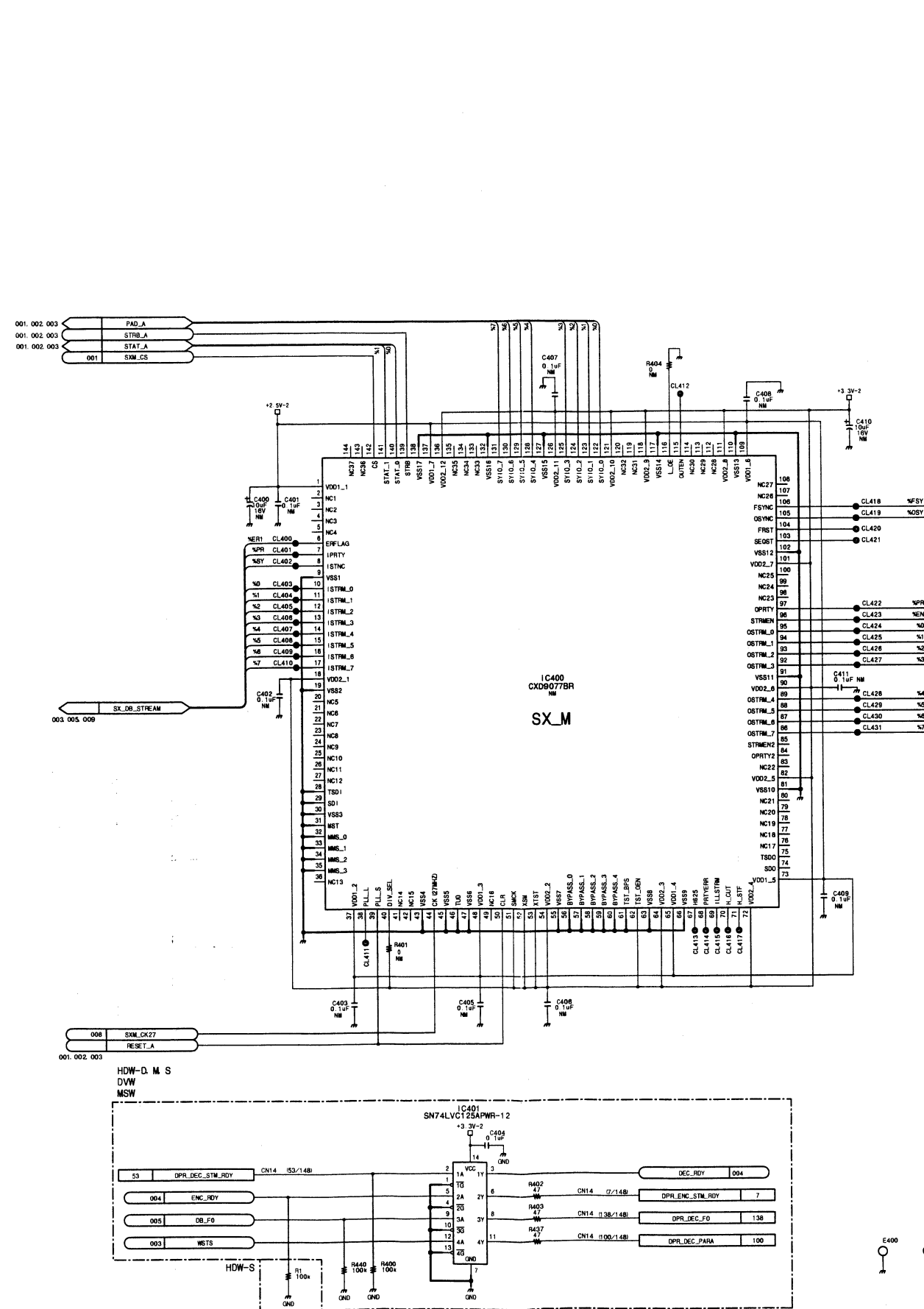


Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-229 (3/9)

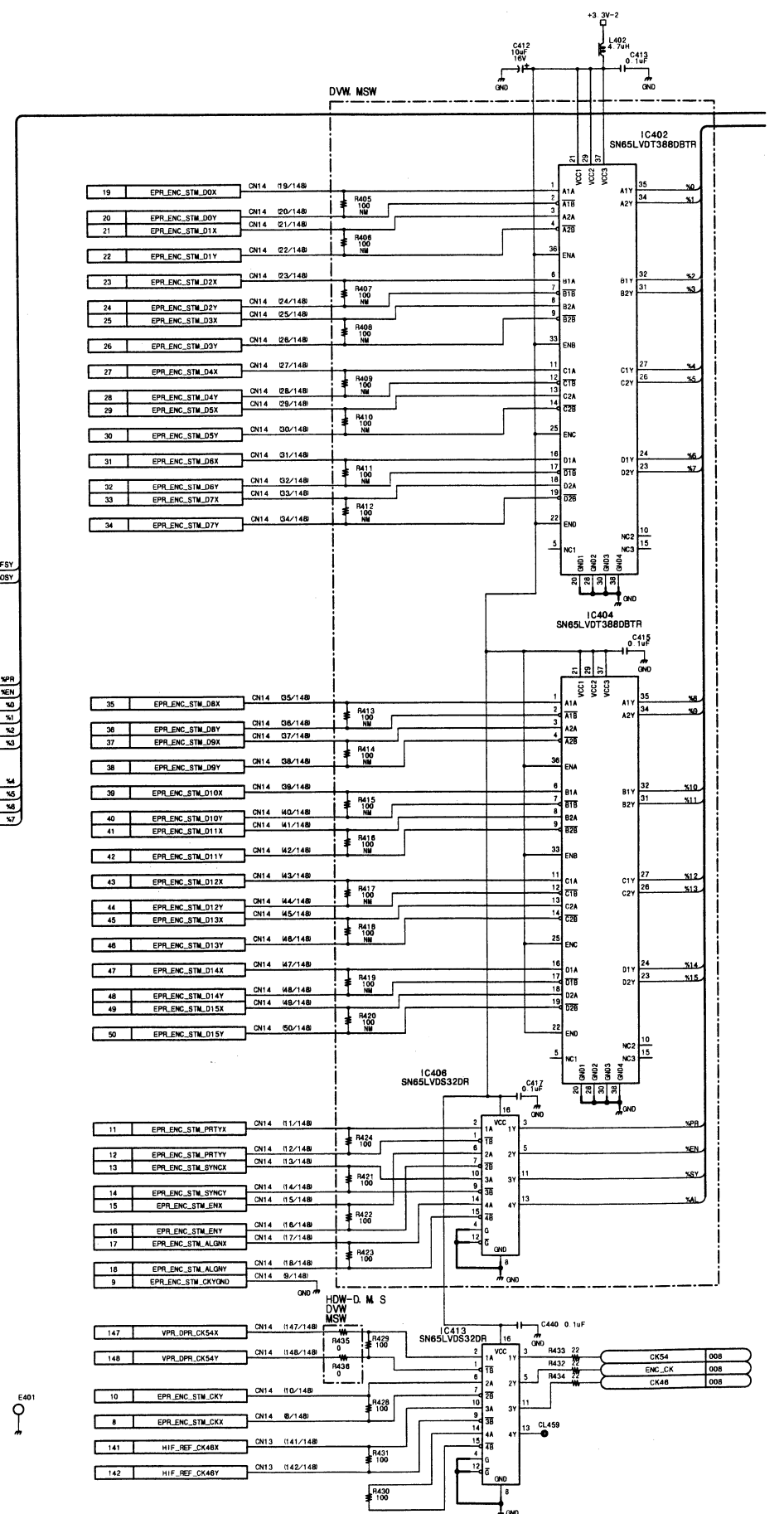
BOARD NO. 1-687-742-11, 12, 13
 DPR-229H: LOT NO. 352- For HDW-2000, A2100
 DPR-229HD: LOT NO. 4C2- For HDW-D2000
 DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2100/P
 DPR-229HS: LOT NO. 462- For HDW-S2000/P
 DPR-229D: LOT NO. 434- For DVW-2000/P
 DPR-229M: LOT NO. 434- For DVW-M2000/P
 LOT NO. 352- For MSW-M2000/P, M2100/P
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 LOT NO. 352- For MSW-A2000/P

DPR-229:
MFV7_DPR-229_11P_3

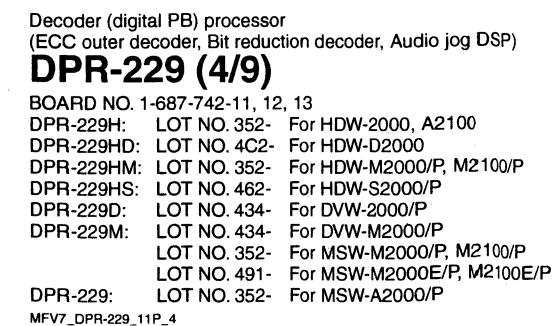


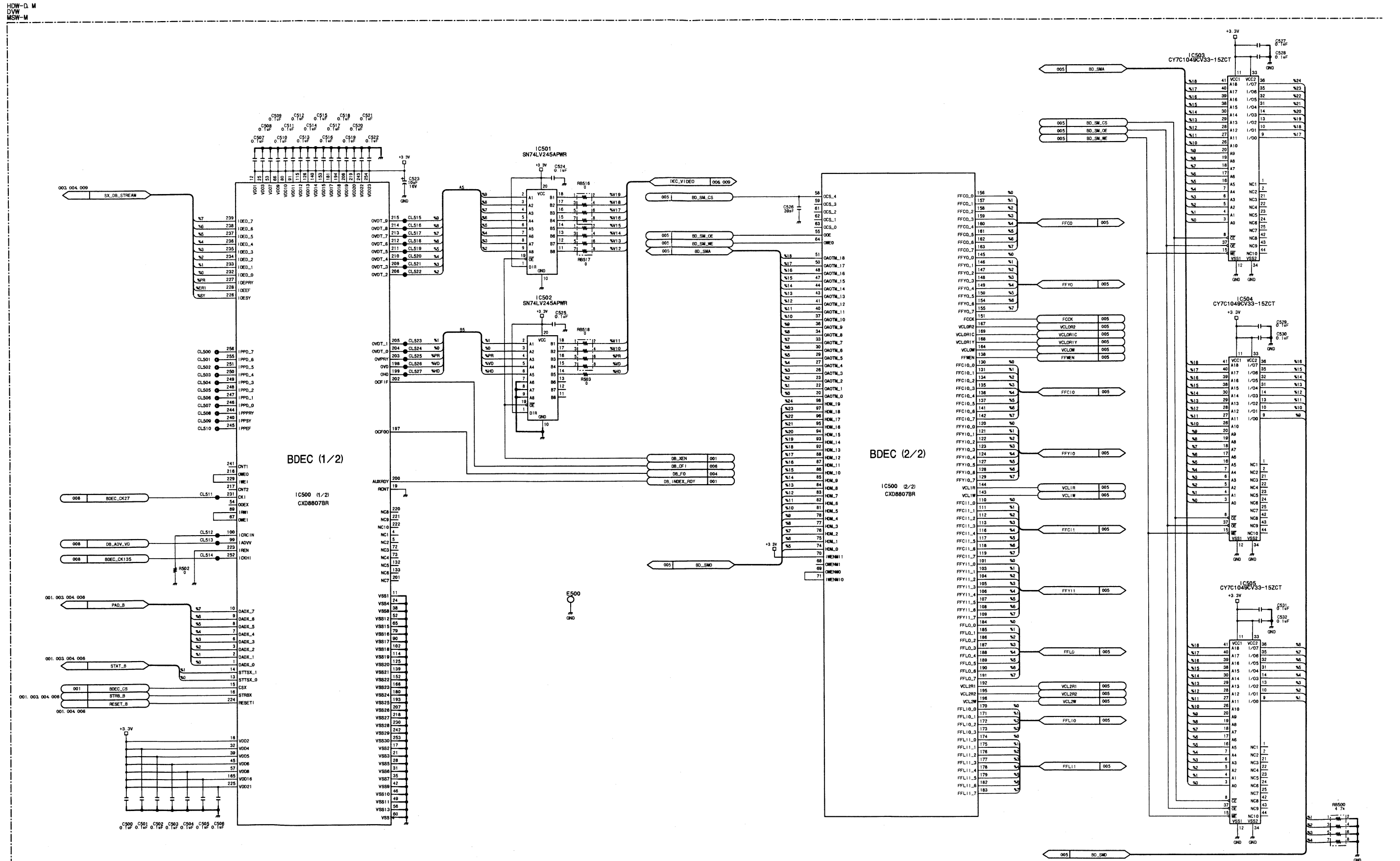
1-118

1-118

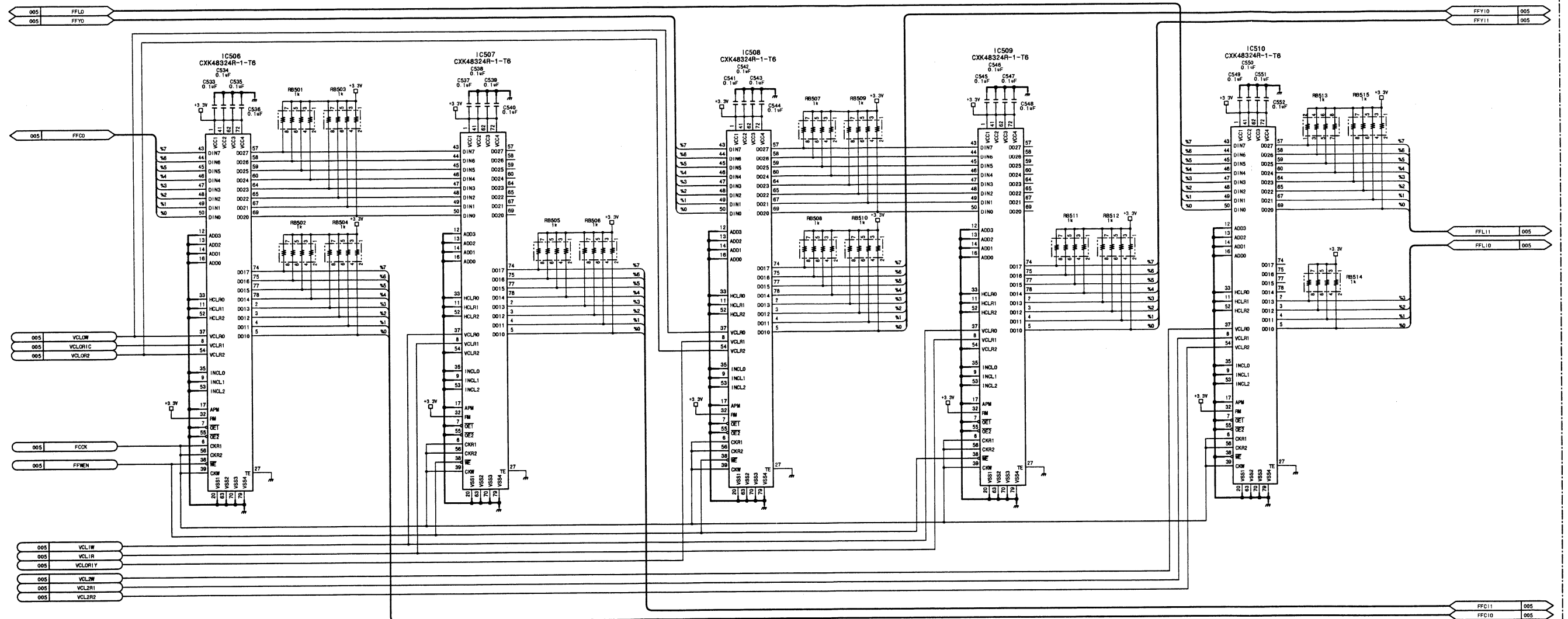


HDW series, DVW series, MSW series





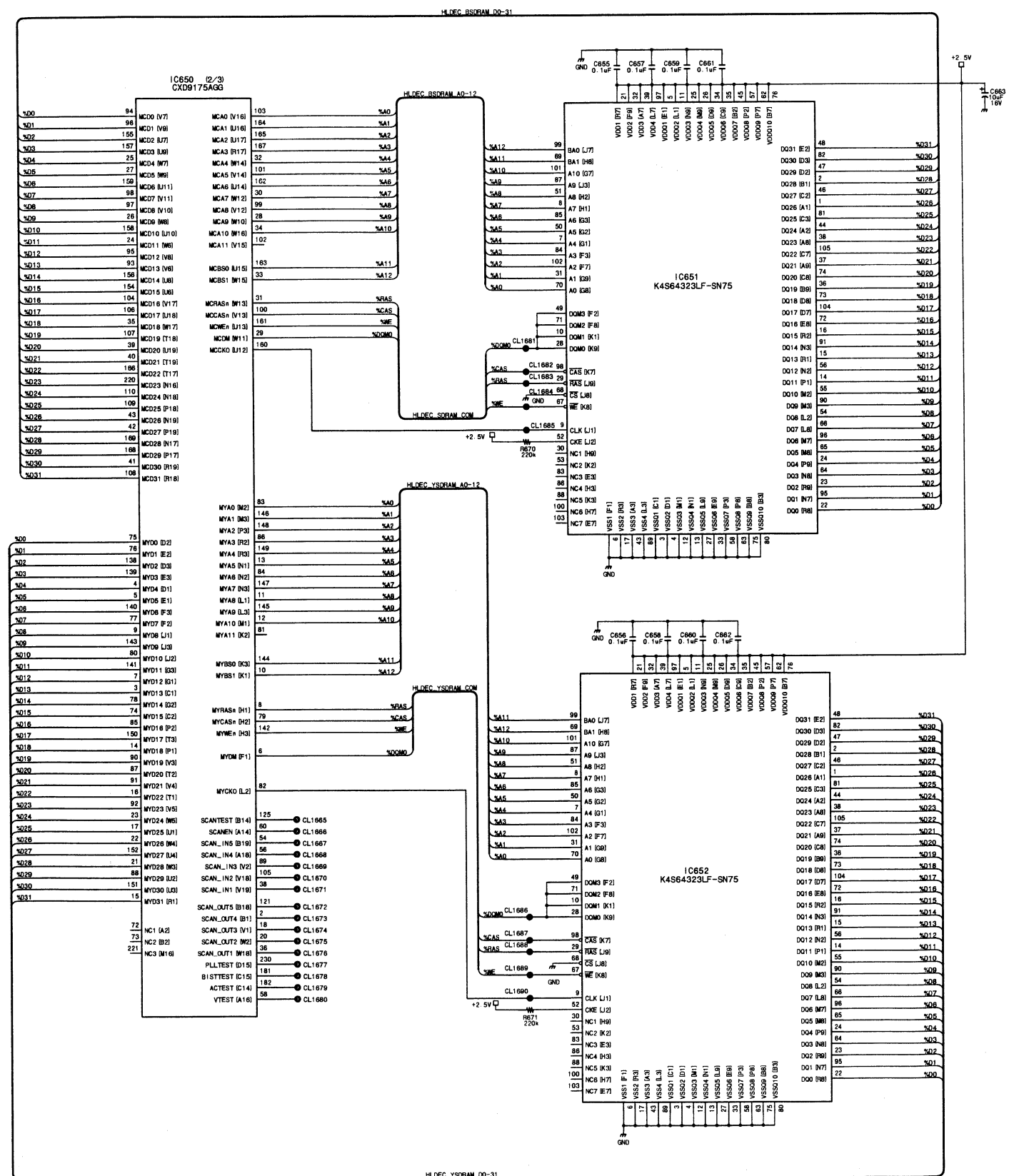
HDW-D, M
DVW
MSW-M

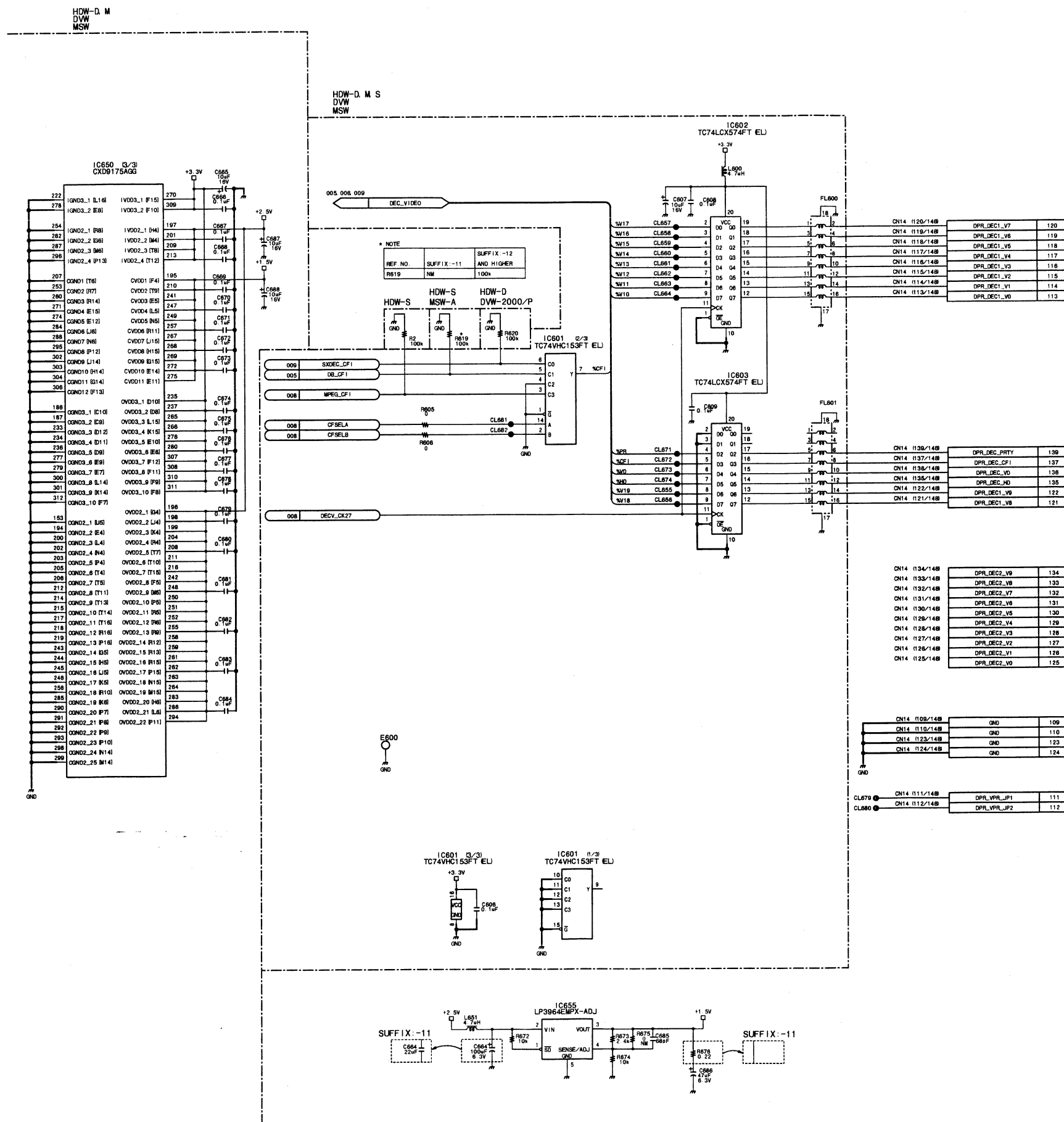


Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-229 (5/9)

BOARD NO. 1-687-742-11, 12, 13
 DPR-229H: LOT NO. 352- For HDW-2000, A2100
 DPR-229HD: LOT NO. 4C2- For HDW-D2000
 DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2100/P
 DPR-229HS: LOT NO. 462- For HDW-S2000/P
 DPR-229D: LOT NO. 434- For DVW-2000/P
 DPR-229M: LOT NO. 434- For DVW-M2000/P
 LOT NO. 352- For MSW-M2000/P, M2100/P
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 DPR-229: LOT NO. 352- For MSW-A2000/P
 MFV7_DPR-229_11P_5





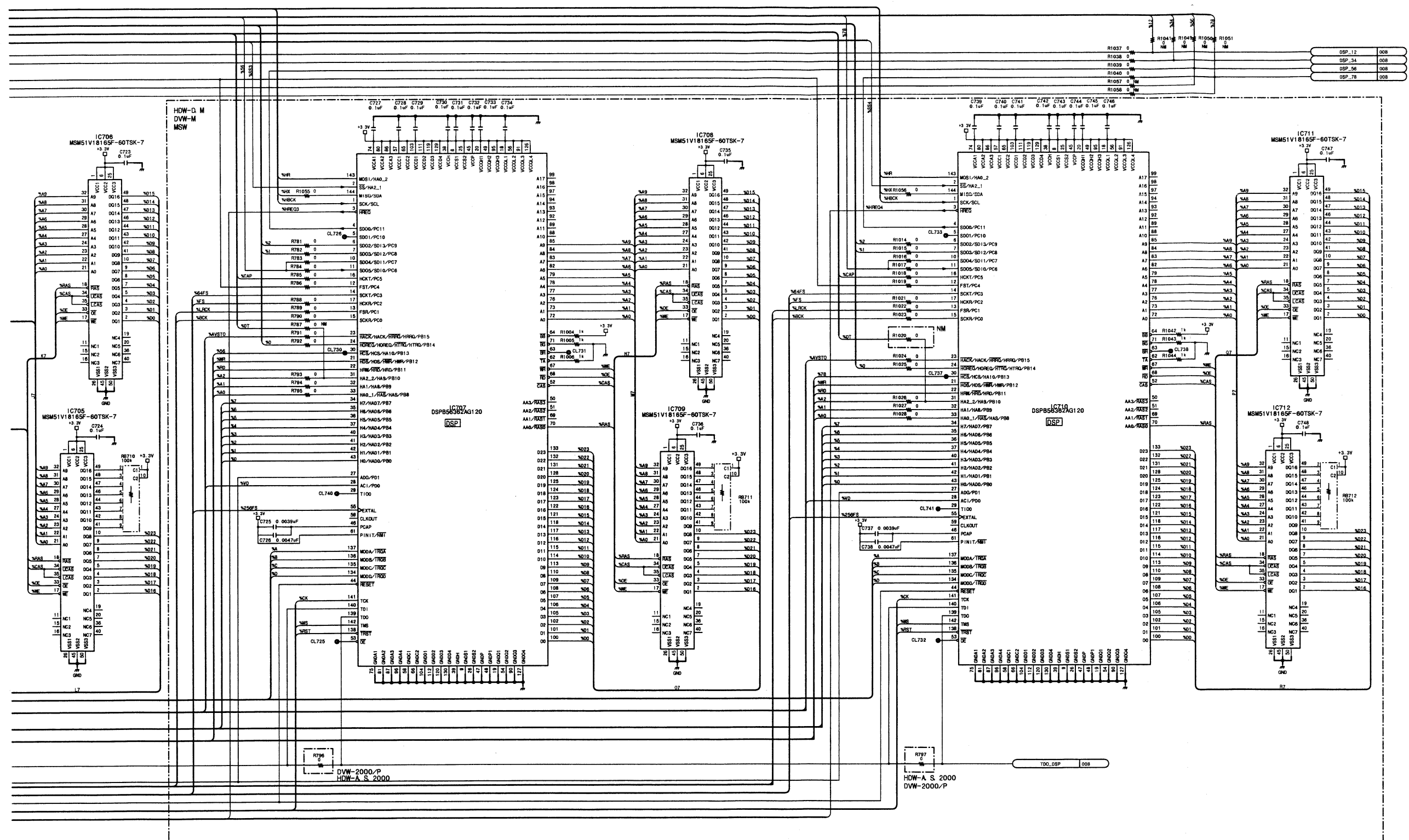
Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

DPR-229 (6/9)

BOARD NO. 1-687-742-11, 12, 13

DPR-229H:	LOT NO. 352-	For HDW-2000, A2100
DPR-229HD:	LOT NO. 4C2-	For HDW-D2000
DPR-229HM:	LOT NO. 352-	For HDW-M2000/P, M2100/P
DPR-229HS:	LOT NO. 462-	For HDW-S2000/P
DPR-229J:	LOT NO. 434-	For DVW-2000/P
DPR-229M:	LOT NO. 434-	For DVW-M2000/P
	LOT NO. 352-	For MSW-M2000/P, M2100/P
	LOT NO. 491-	For MSW-M2000E/P, M2100E/P
DPR-229:	LOT NO. 352-	For MSW-A2000/P

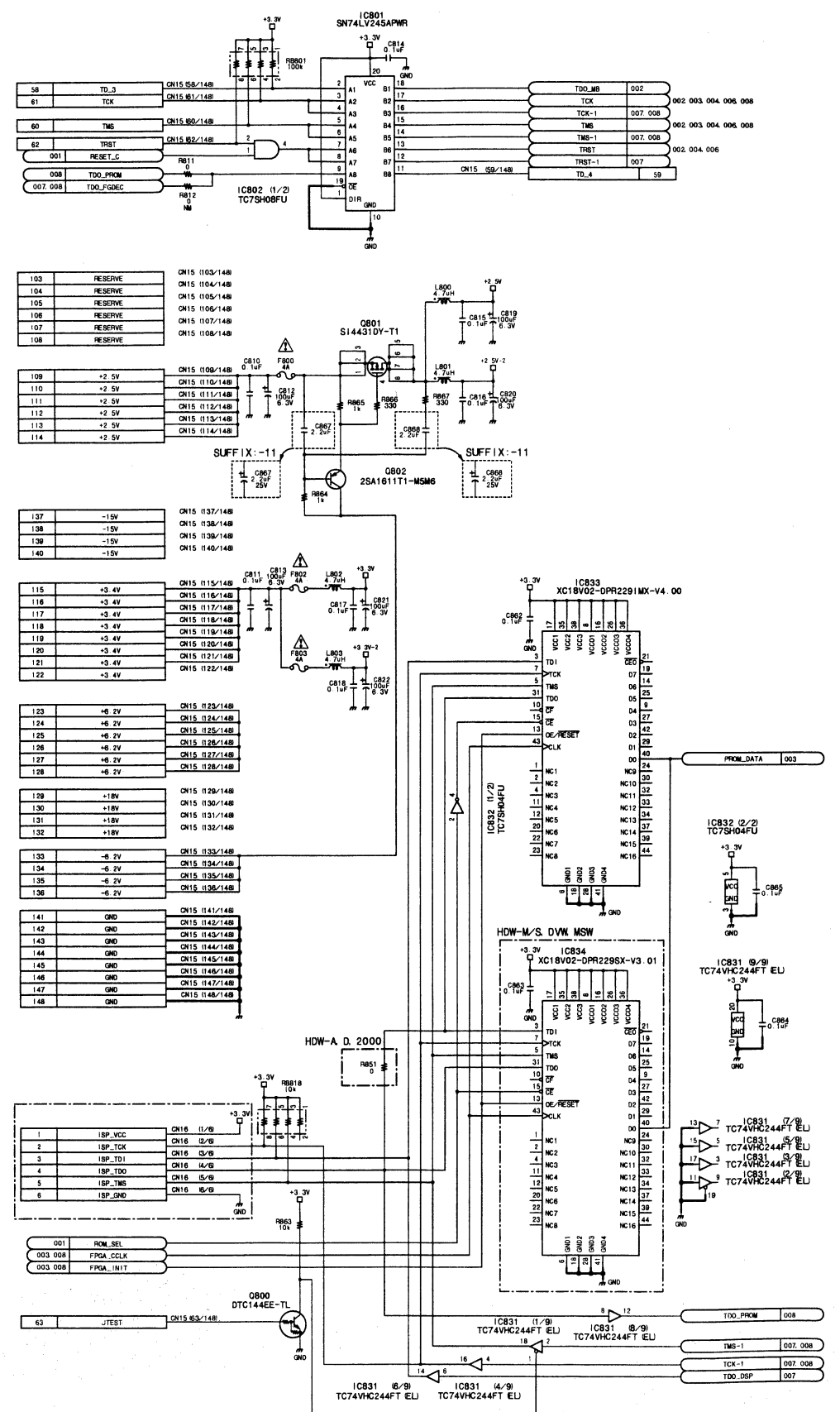
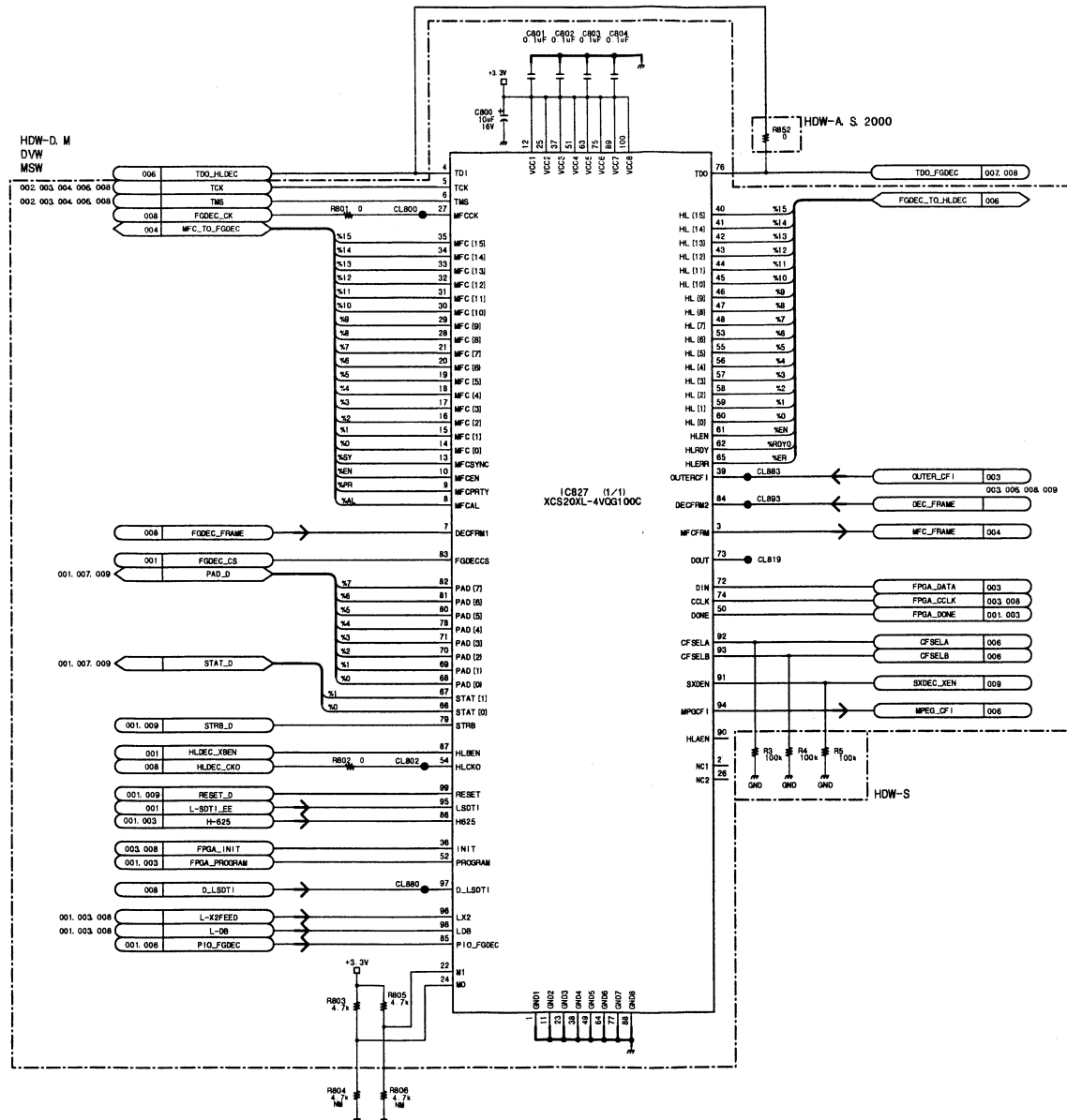


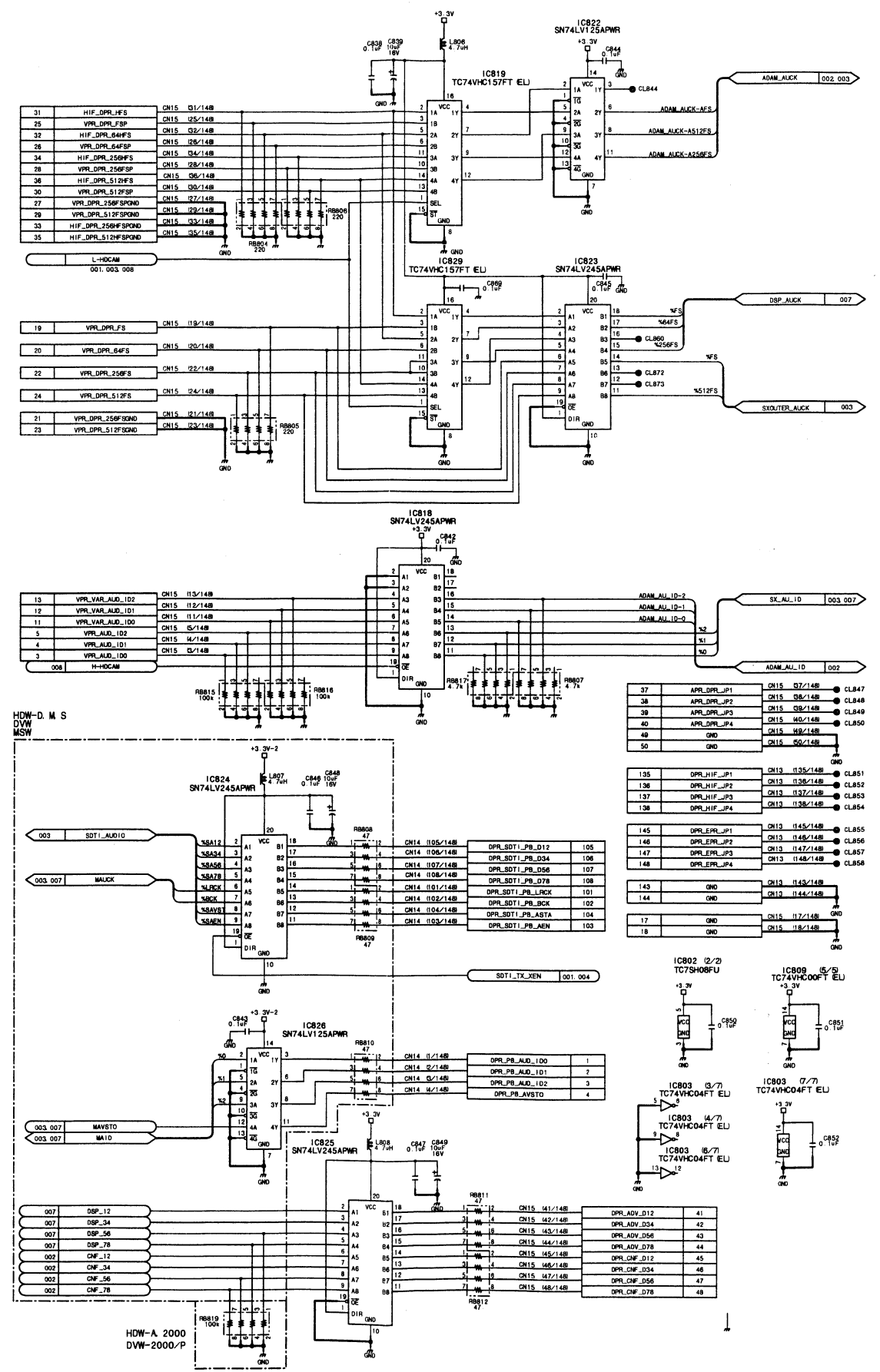
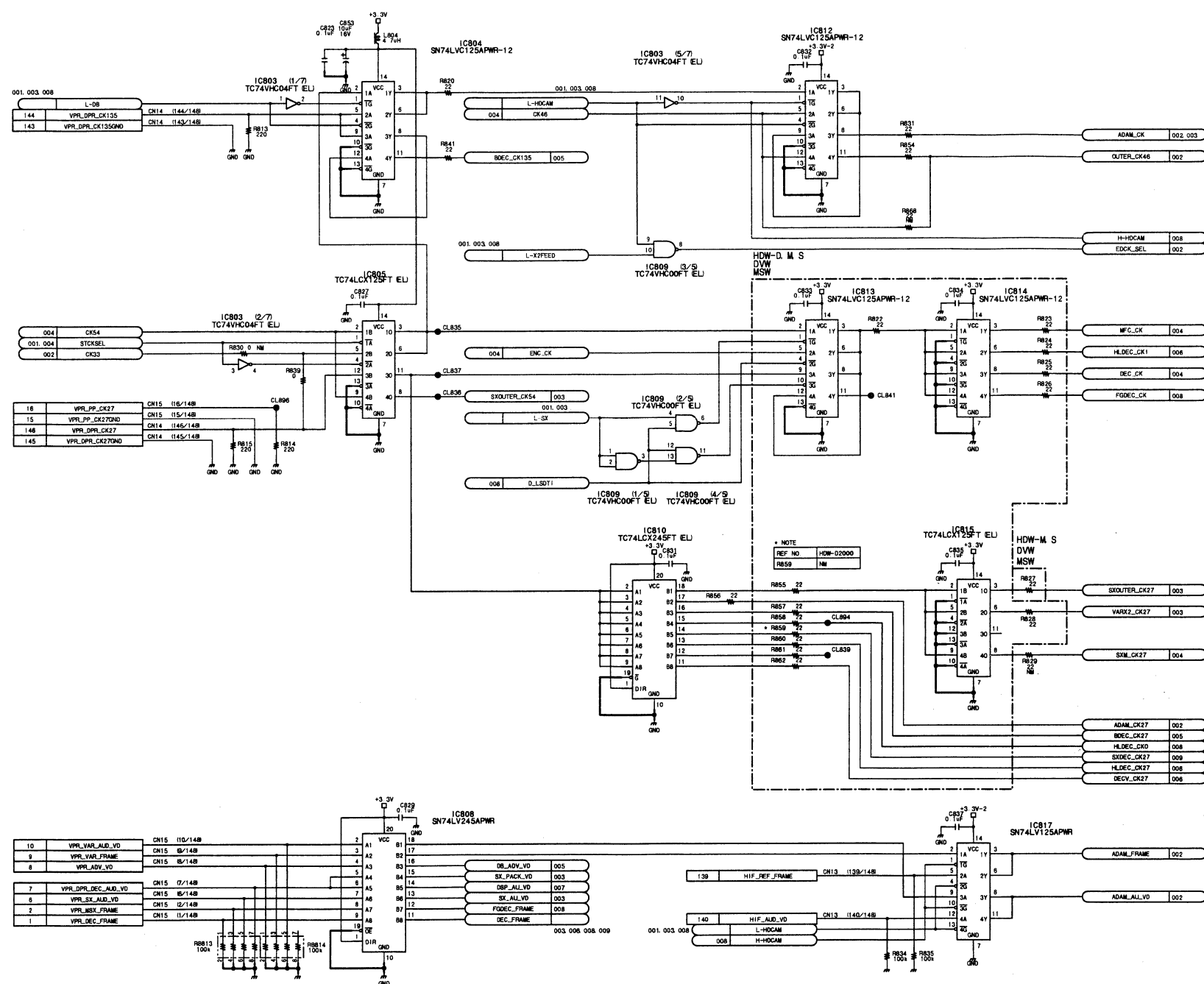


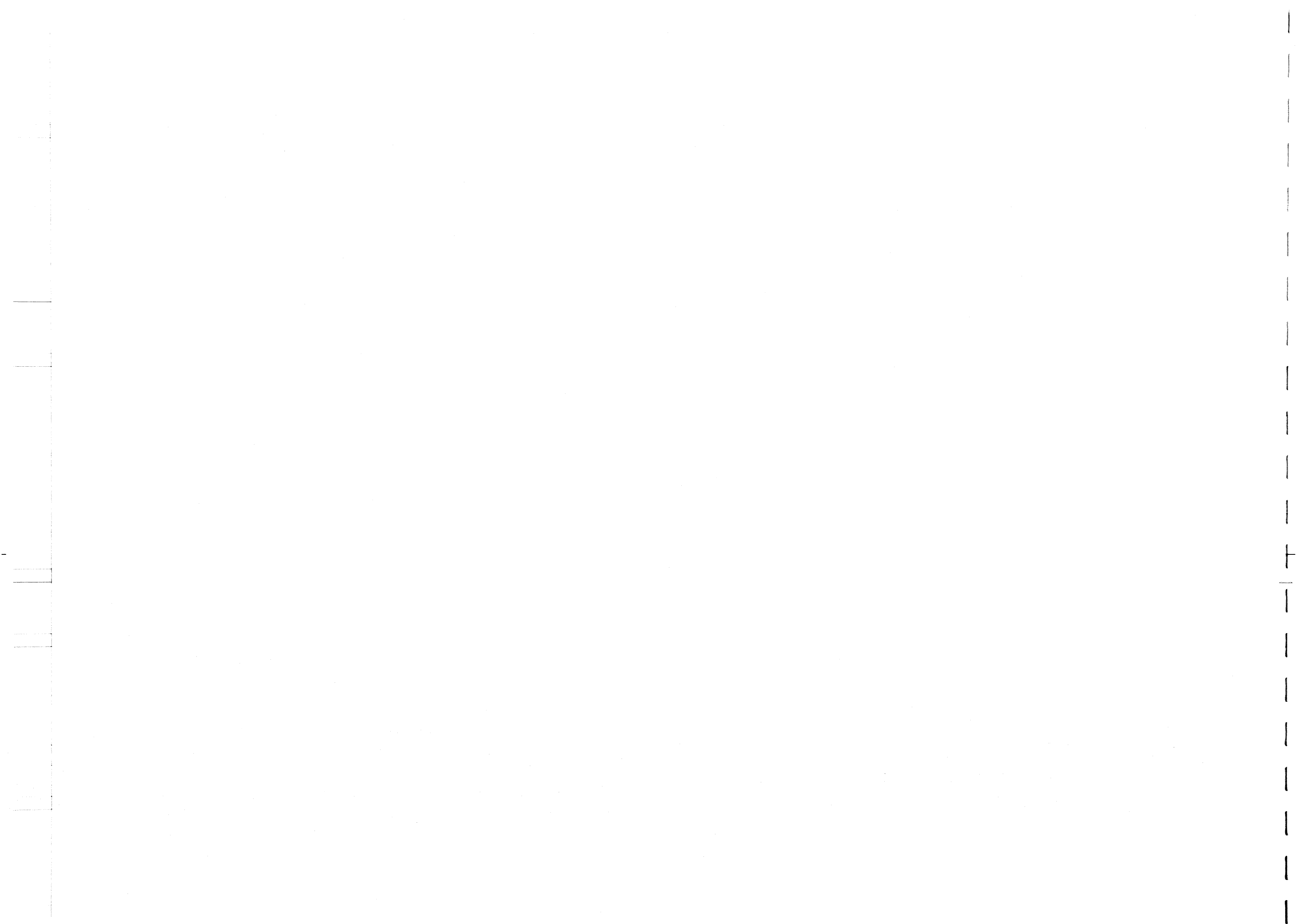
Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog)SP)
DPR-229 (7/9)

BOARD NO. 1-687-742-11, 12, 13
 DPR-229H: LOT NO. 352- For HDW-2000, A2100
 DPR-229HD: LOT NO. 4C2- For HDW-D2000
 DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2000/P
 DPR-229HS: LOT NO. 462- For HDW-S2000/P
 DPR-229D: LOT NO. 434- For DVW-2000/P
 DPR-229M: LOT NO. 434- For DVW-M2000/P
 LOT NO. 352- For MSW-M2000/P, M2000/P
 LOT NO. 491- For MSW-M2000E/P, M2000E/P
 LOT NO. 352- For MSW-A2000/P

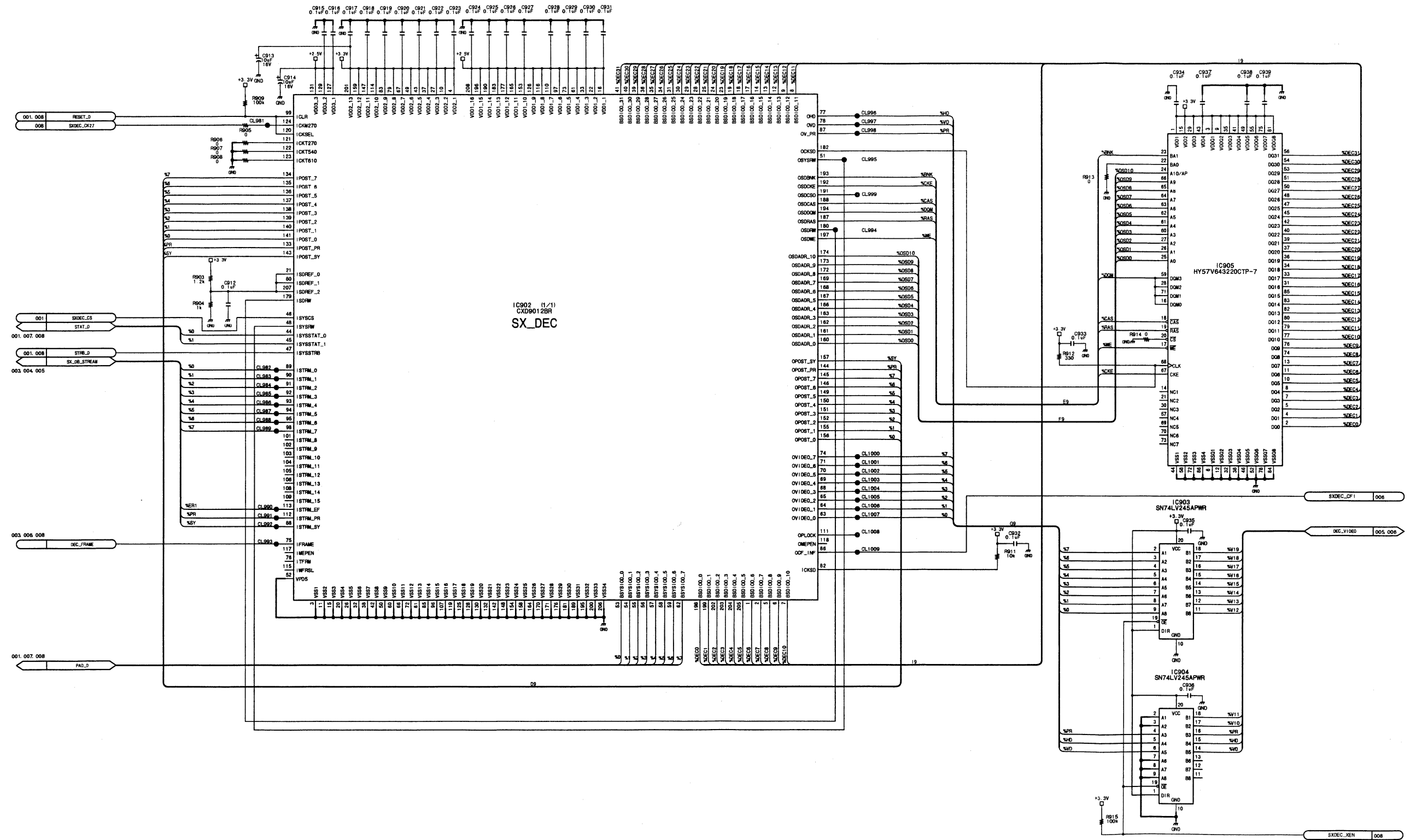
DPR-229:
MFV7_DPR-229_11P_7







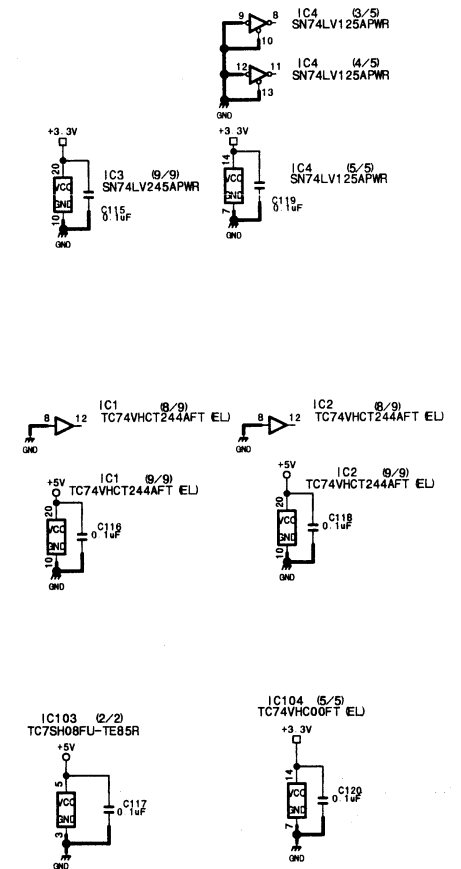
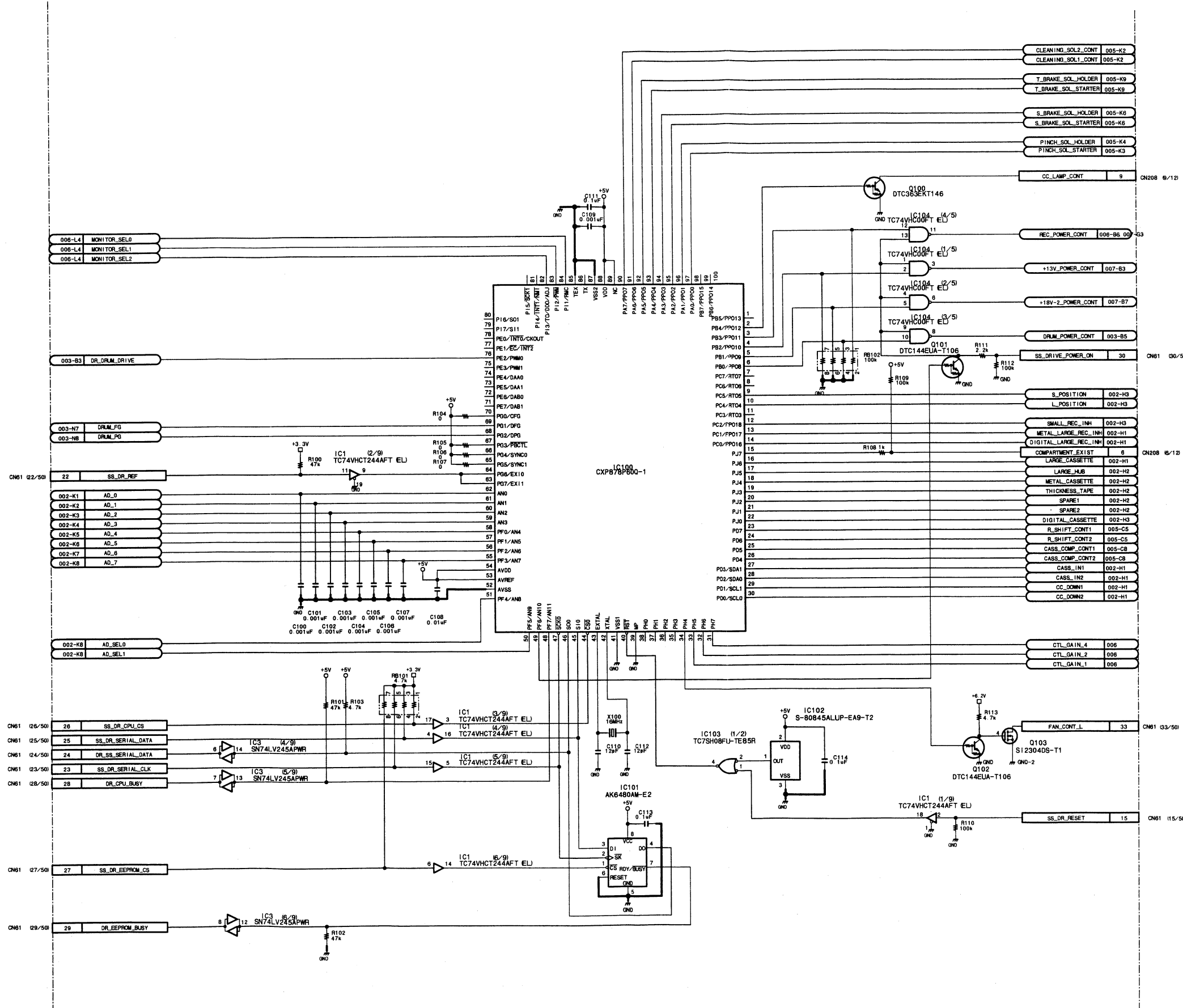
HDW-M S
DVW-M
MSW



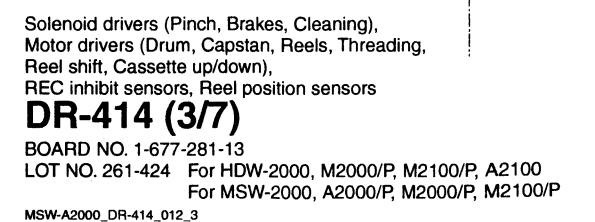
Decoder (digital PB) processor
(ECC outer decoder, Bit reduction decoder, Audio jog DSP)

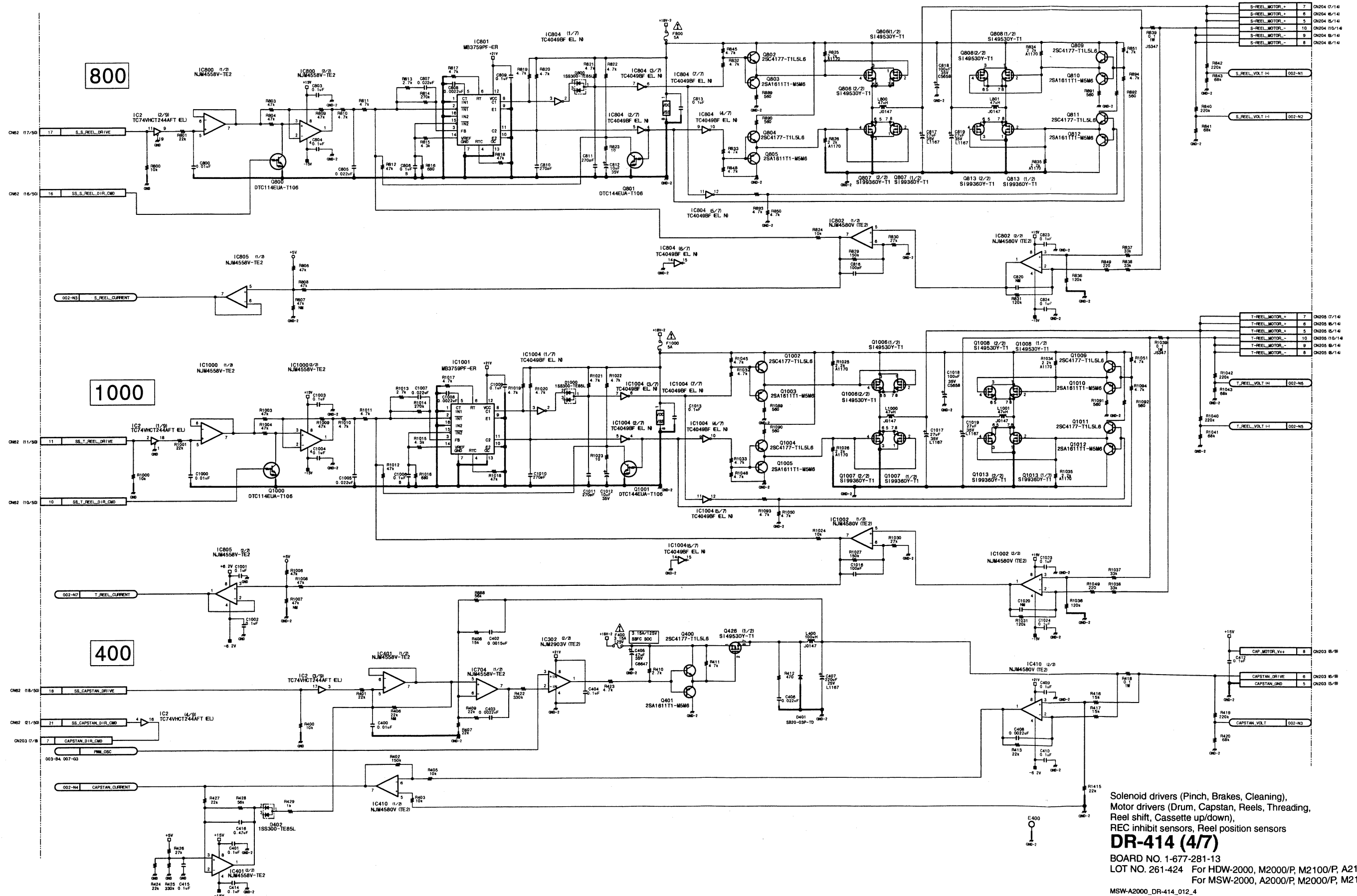
DPR-229 (9/9)

BOARD NO. 1-687-742-11, 12, 13
 DPR-229H: LOT NO. 352- For HDW-2000, A2100
 DPR-229HD: LOT NO. 4C2- For HDW-D2000
 DPR-229HM: LOT NO. 352- For HDW-M2000/P, M2100/P
 DPR-229HS: LOT NO. 462- For HDW-S2000/P
 DPR-229D: LOT NO. 434- For DVW-2000/P
 DPR-229M: LOT NO. 434- For DVW-M2000/P
 LOT NO. 352- For MSW-M2000/P, M2100/P
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 DPR-229: LOT NO. 352- For MSW-A2000/P
 MFV7_DPR-229_11P_9

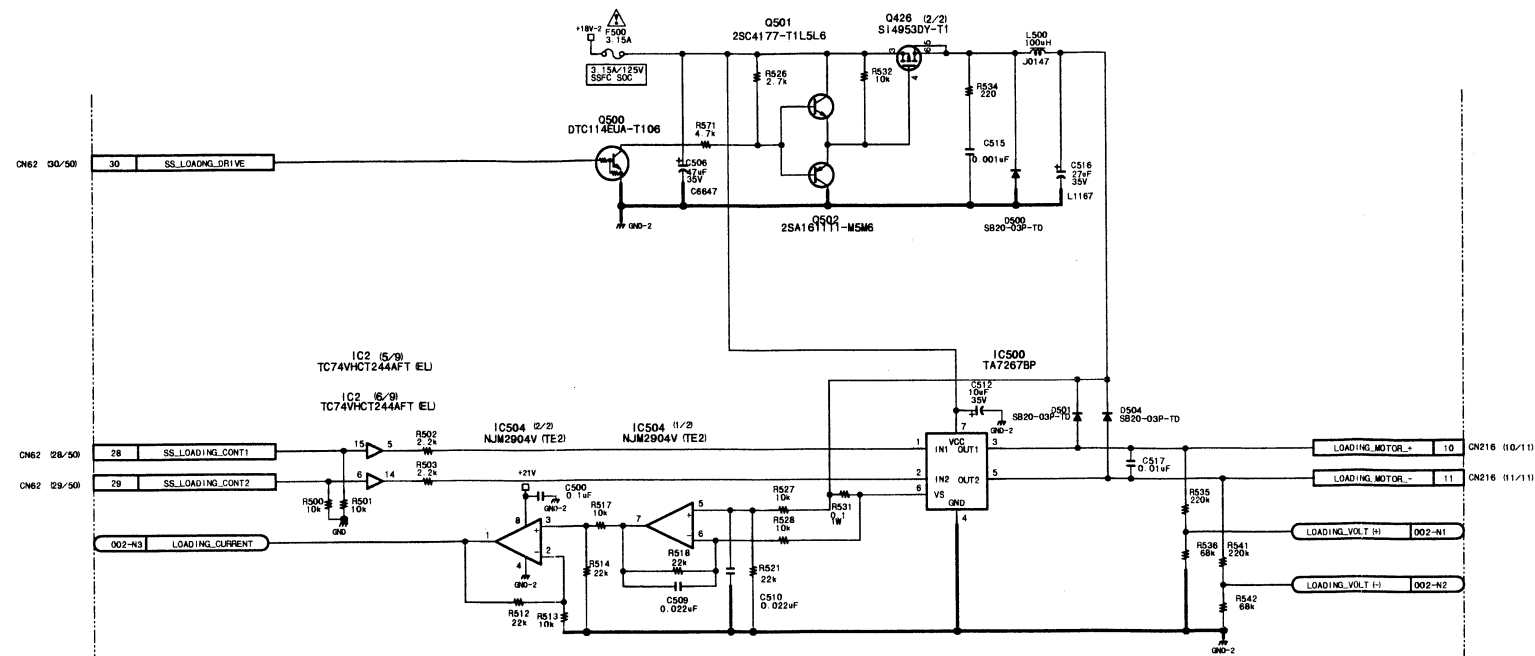


Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-414 (1/7)
BOARD NO. 1-677-281-13
LOT NO. 261-424 For HDW-2000, M2000/P, M2100/P, A2100
For MSW-2000, A2000/P, M2000/P, M2100/P
MSW-A2000_DR-414_012_1

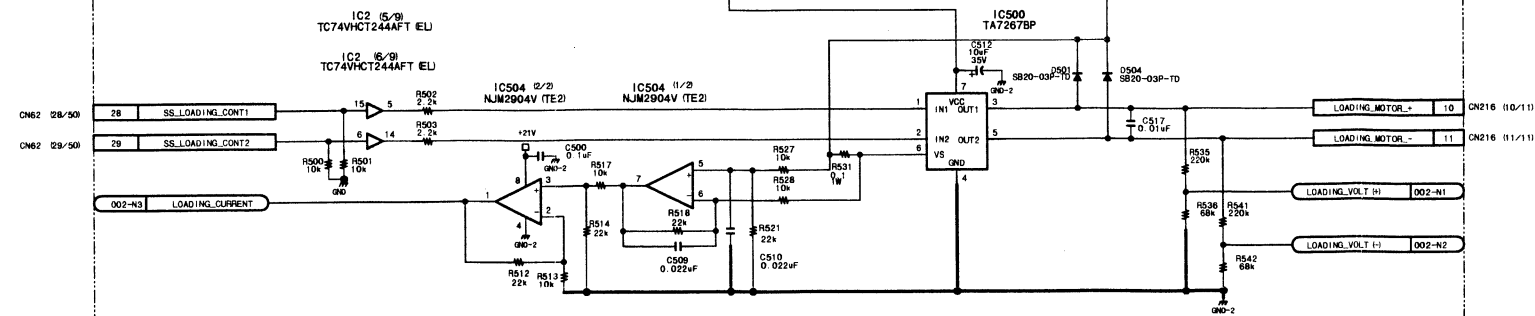




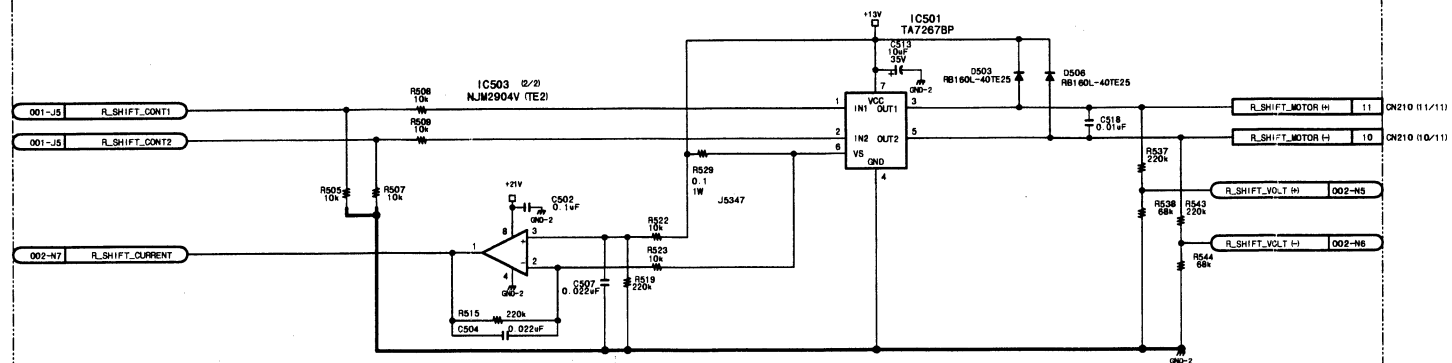
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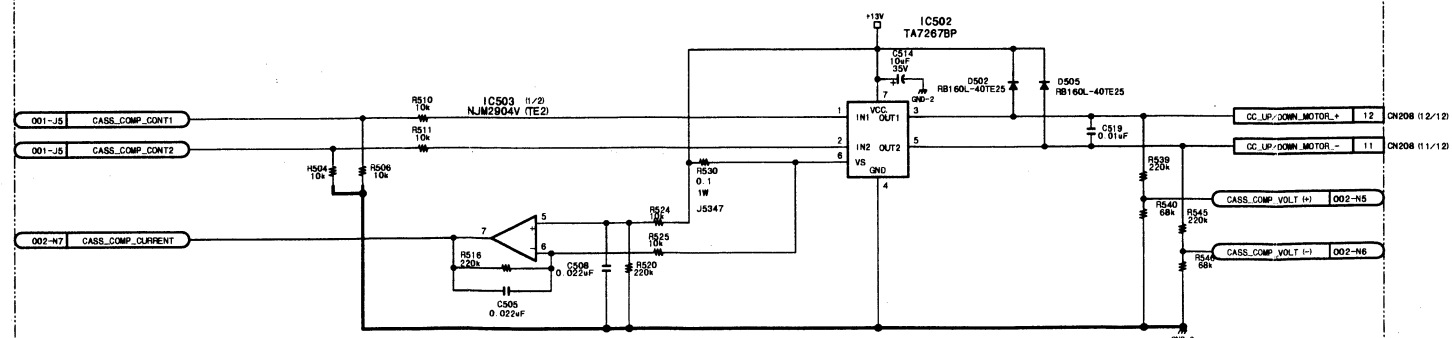
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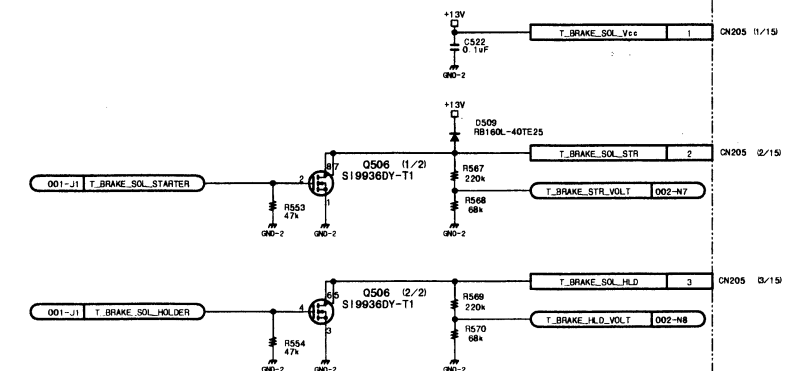
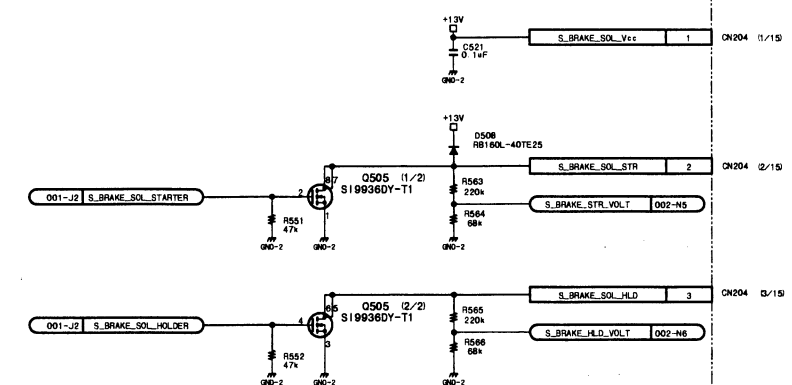
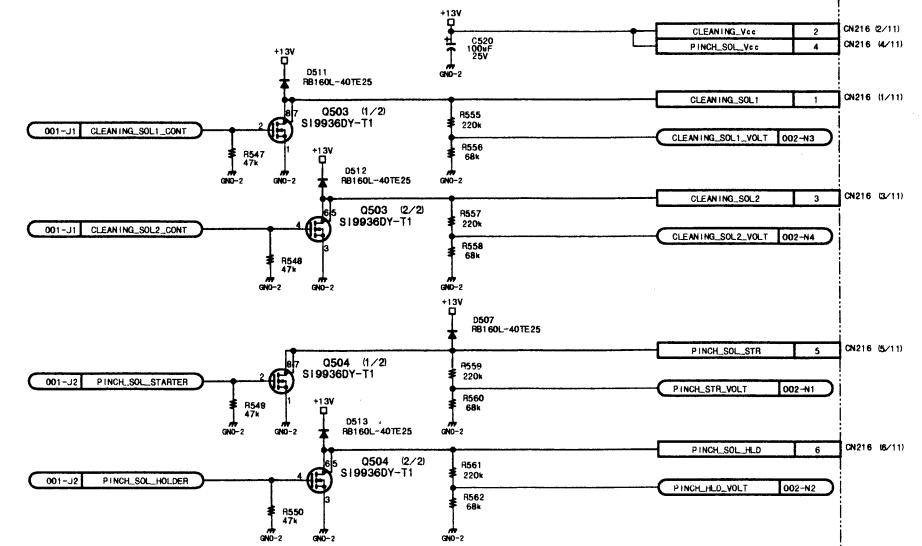
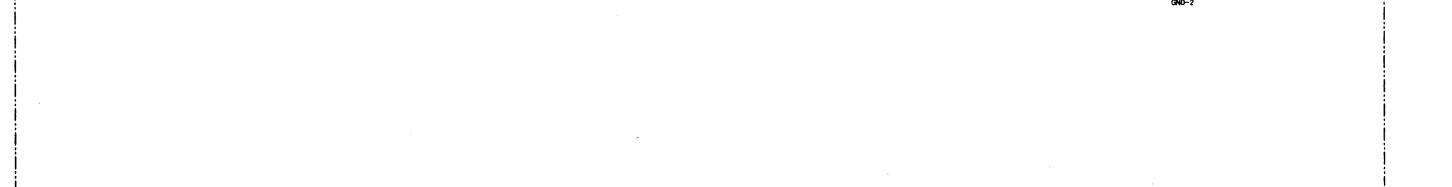
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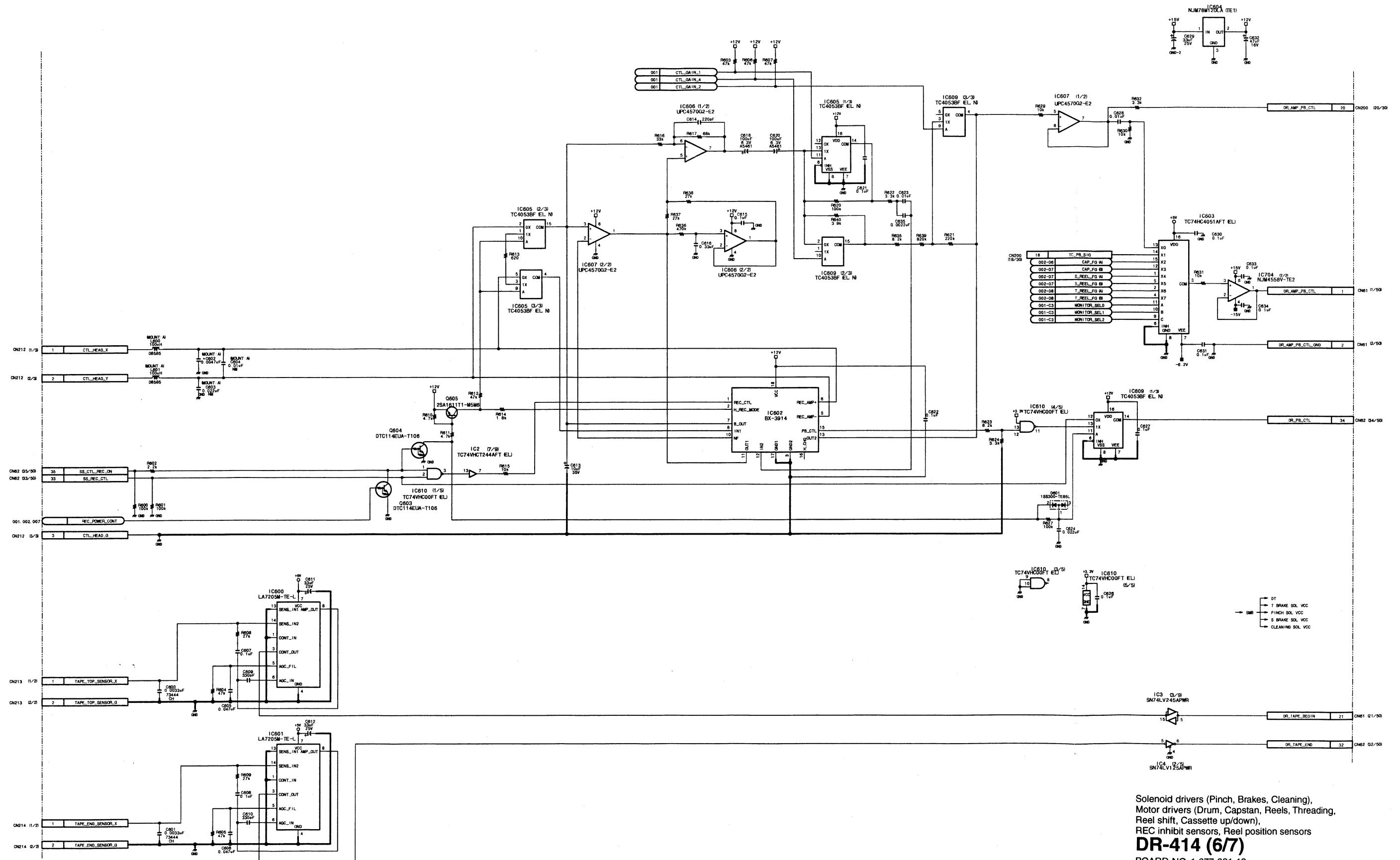
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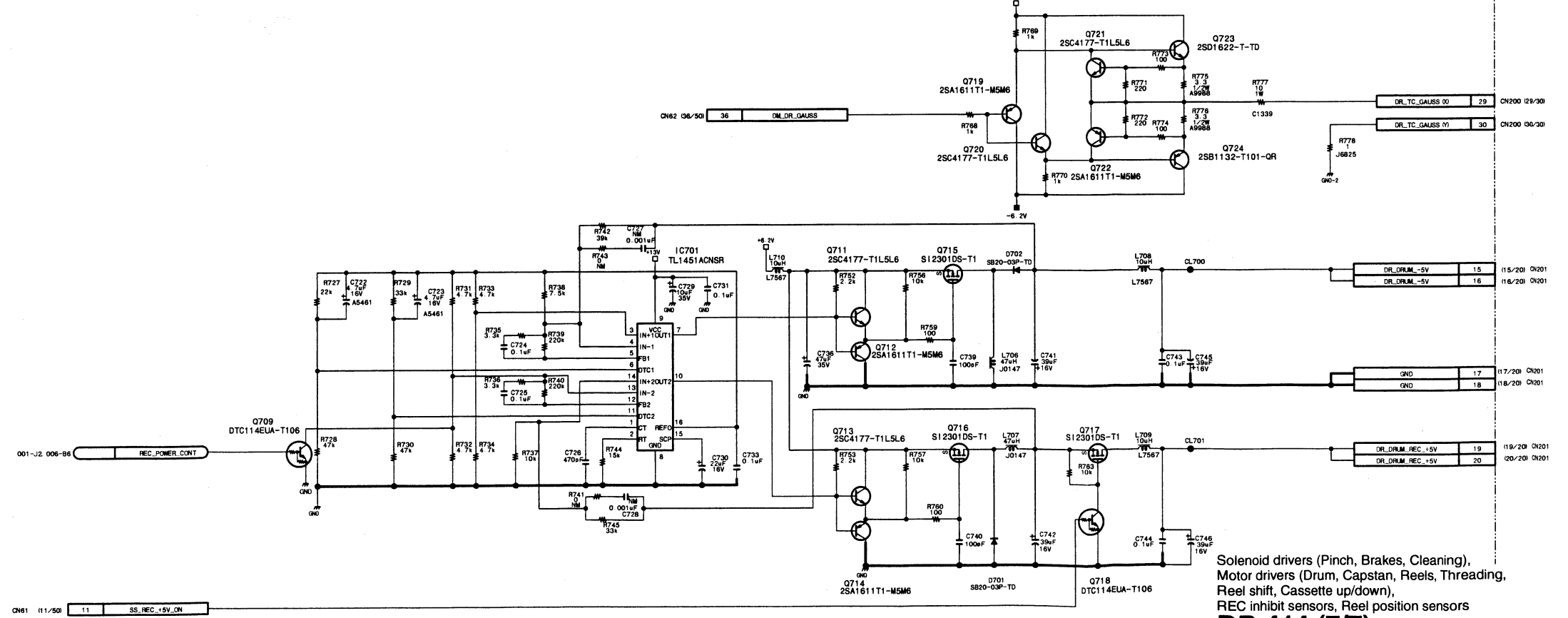
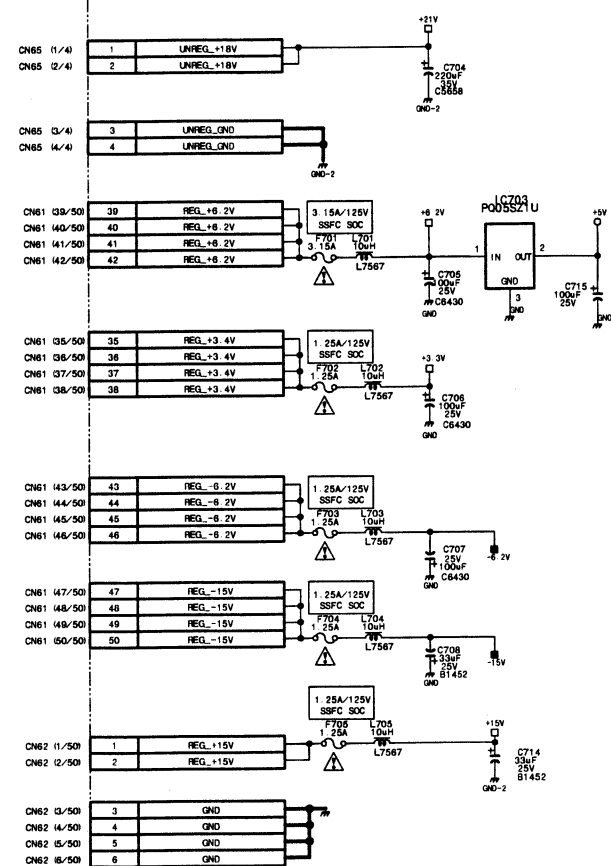
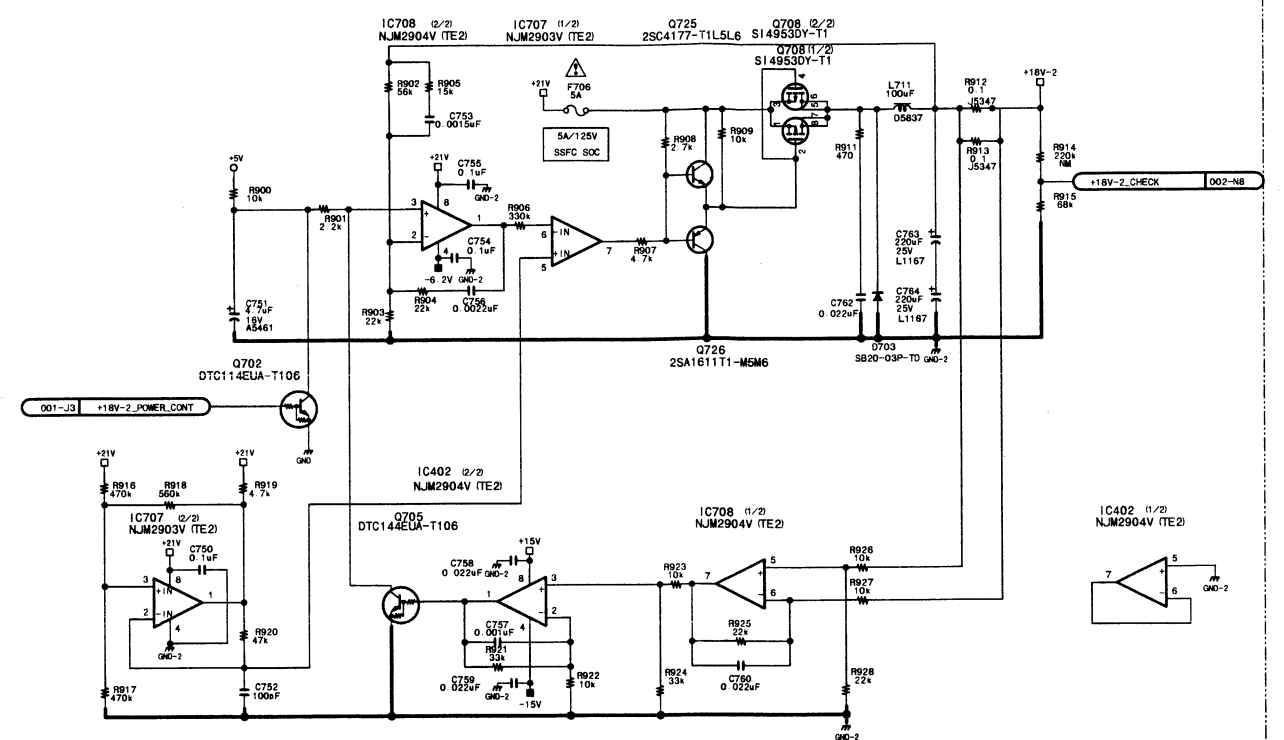
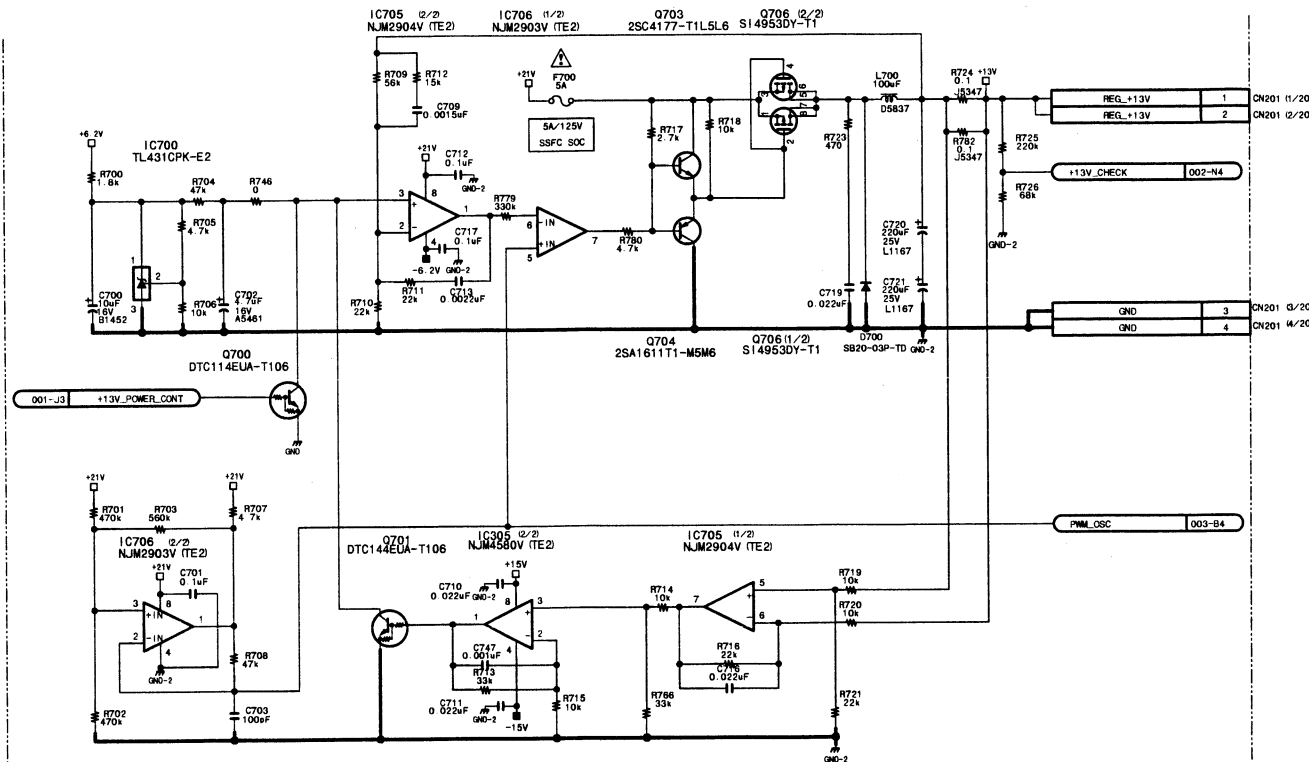


Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-414 (5/7)
BOARD NO. 1-677-281-13
LOT NO. 261-424 For HDW-2000, M2000/P, M2100/P, A2100
For MSW-2000, A2000/P, M2000/P, M2100/P
MSW-A2000_DR-414_012_5



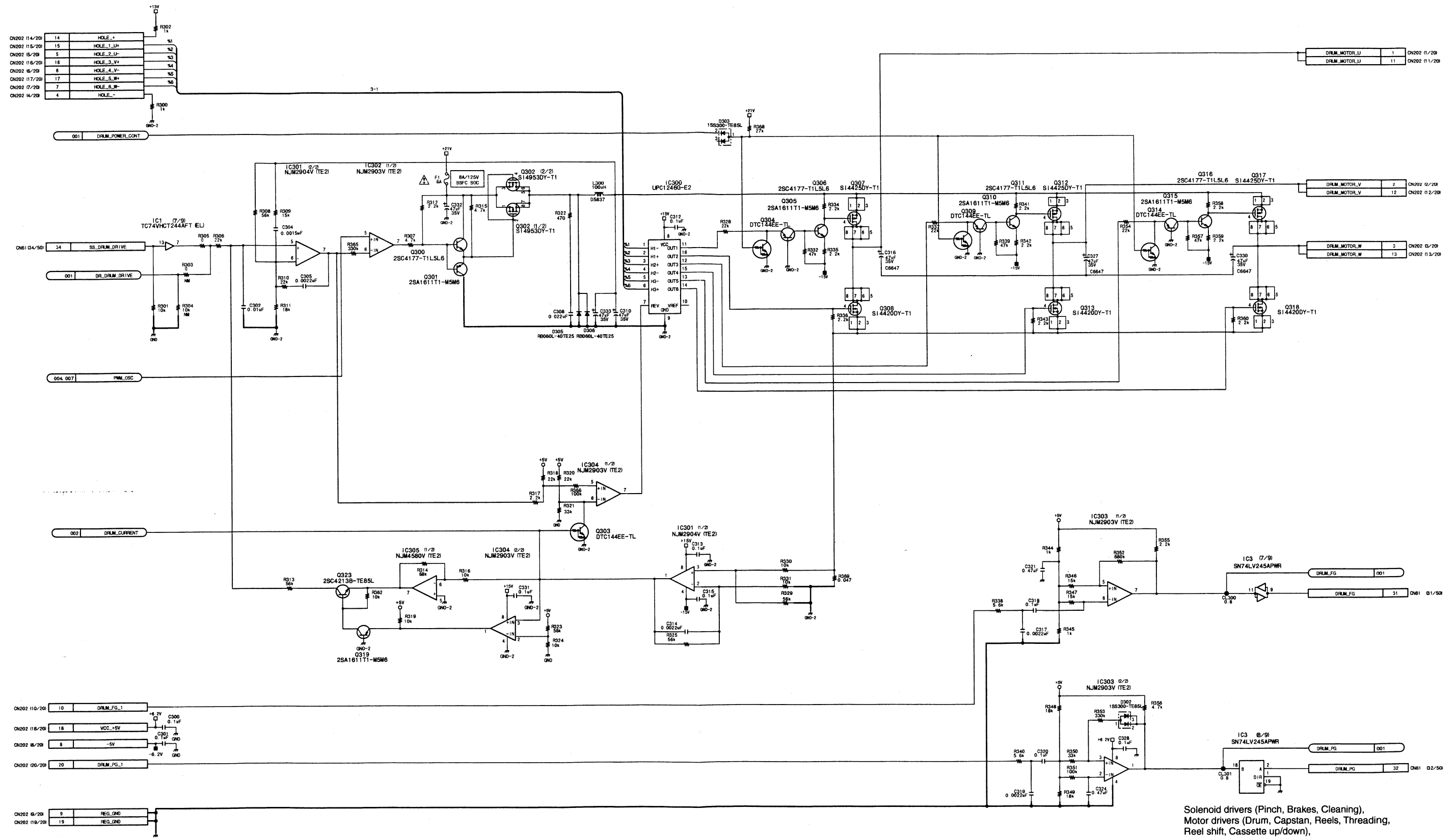
Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-414 (6/7)
BOARD NO. 1-677-281-13
LOT NO. 261-424 For HDW-2000, M2000/P, M2100/P, A2100
For MSW-2000, A2000/P, M2000/P, M2100/P
MSW-A2000_DR-414_012_6





Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-414 (7/7)

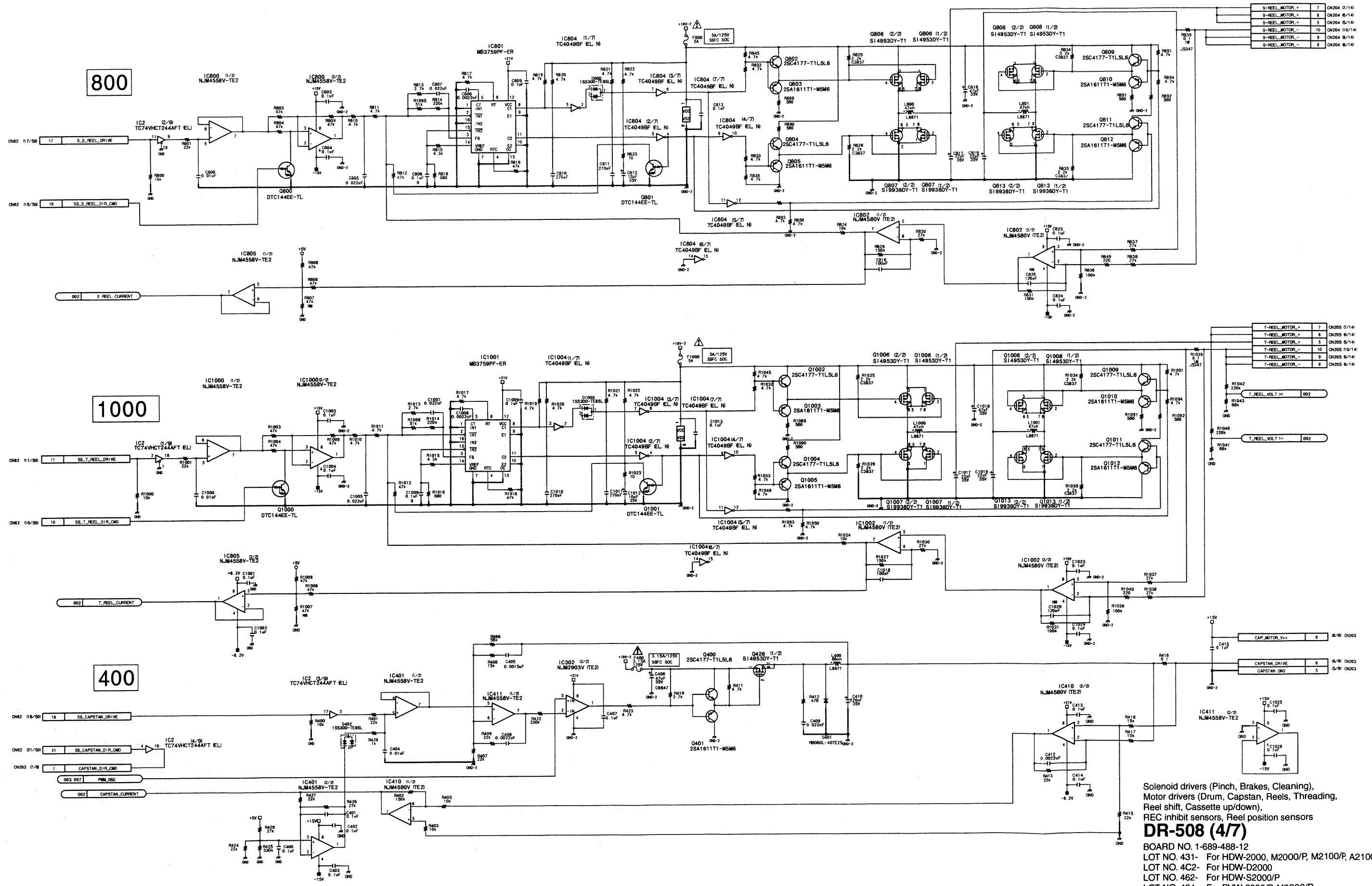
BOARD NO. 1-677-281-13
LOT NO. 261-424 For HDW-2000, M2000/P, M2100/P, A2100
For MSW-2000, A2000/P, M2000/P, M2100/P
MSW-A2000_DR-414_012_7



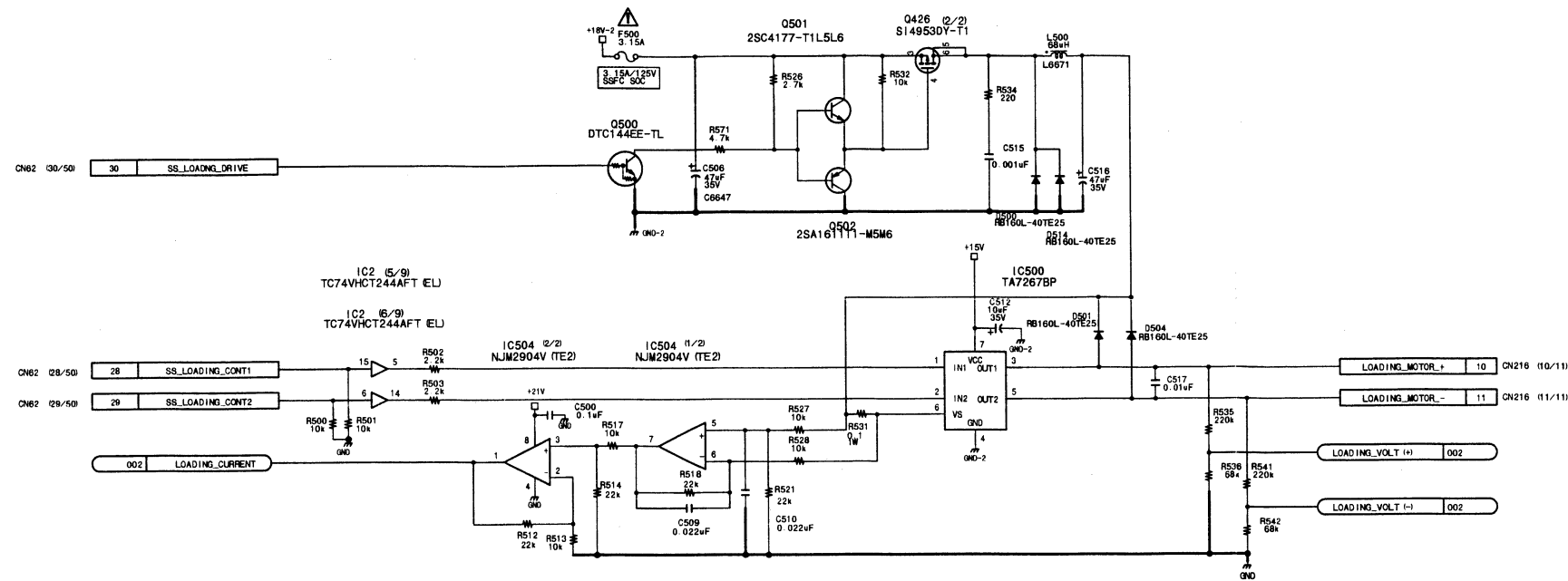
Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-508 (3/7)

BOARD NO. 1-689-488-12
LOT NO. 431- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 431- For MSW-2000, A2000/P, M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
SRW-5000_DR-508_12P_3

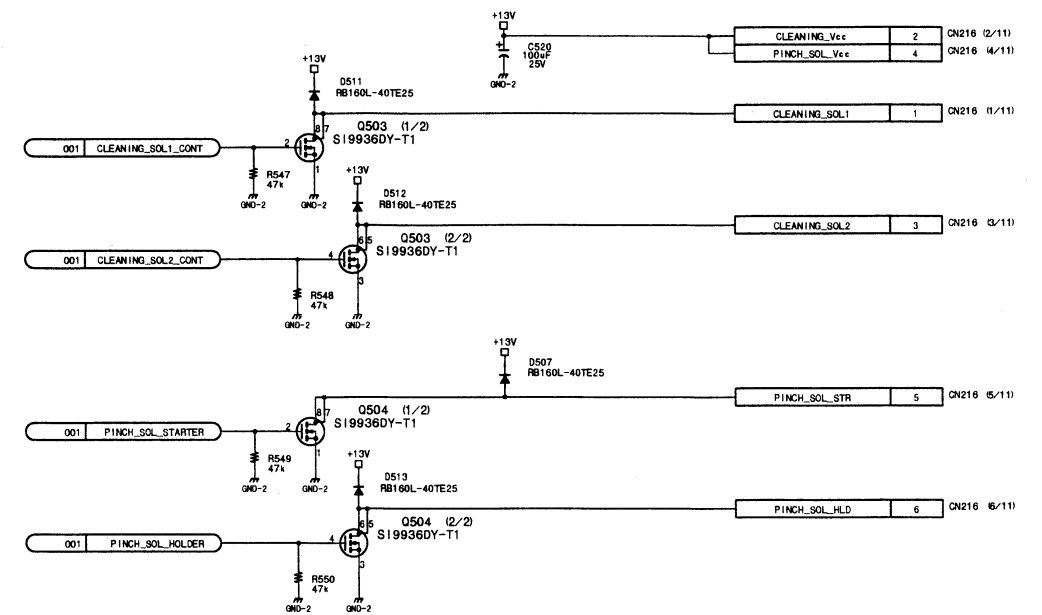
HDW series, DVW series, MSW series



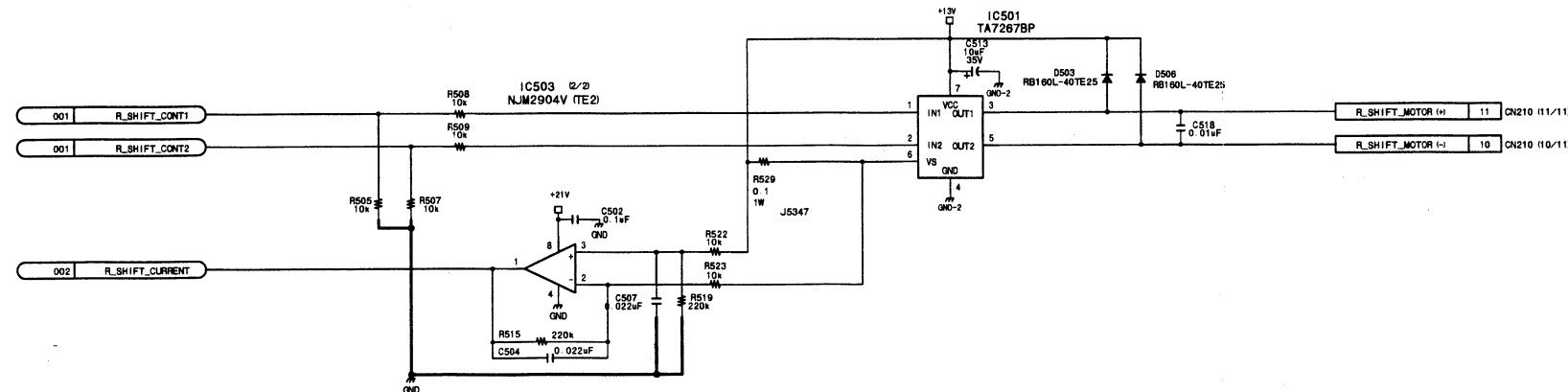
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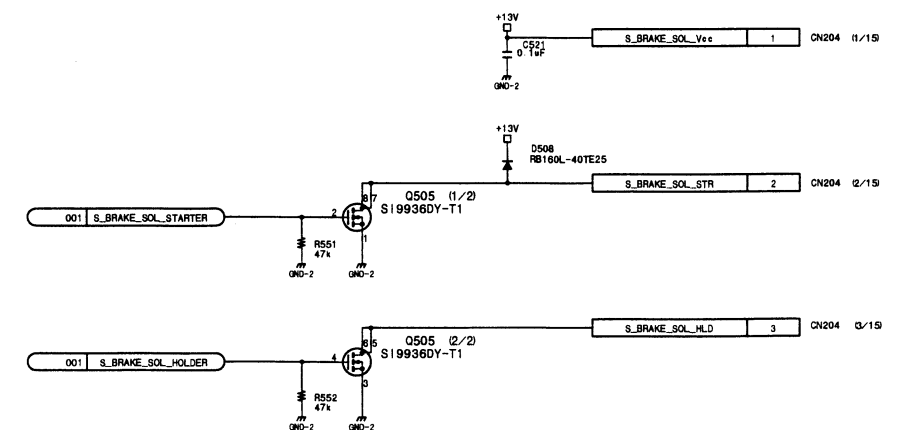
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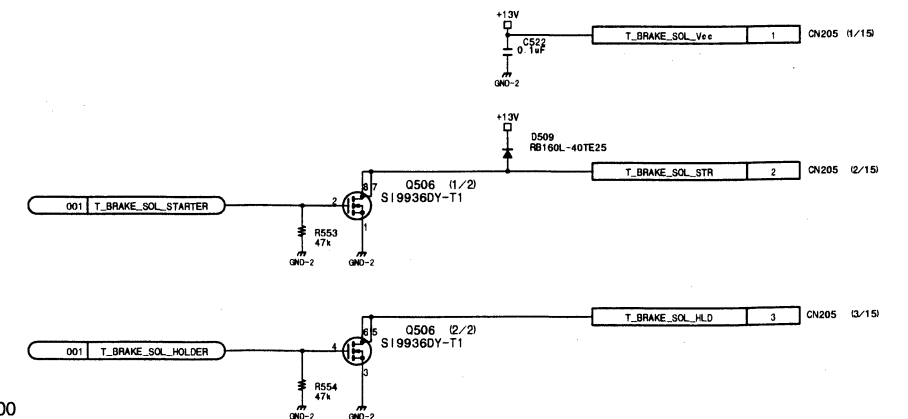
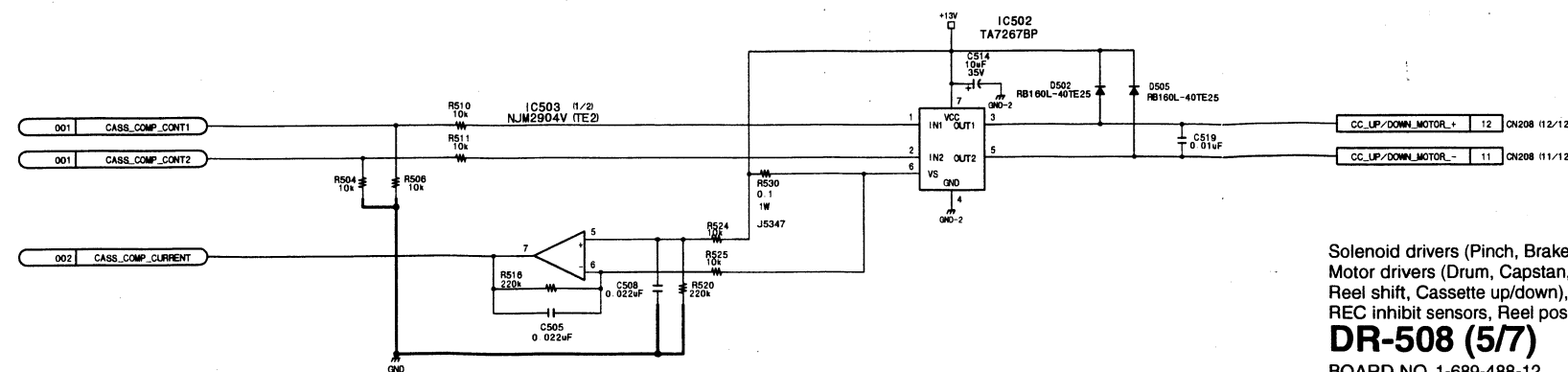
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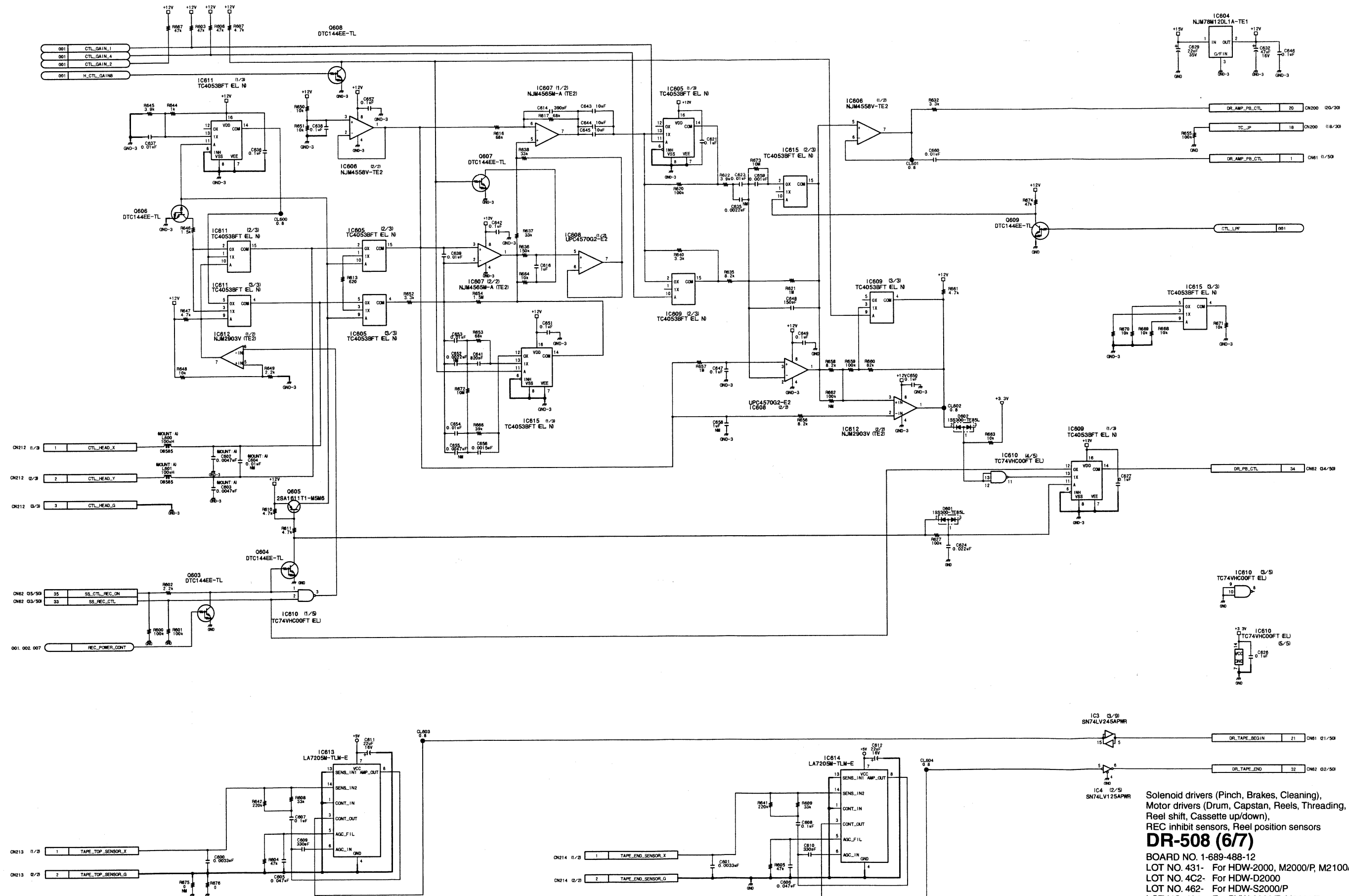


5



Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading),
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors
DR-508 (5/7)

BOARD NO. 1-689-488-12
LOT NO. 431- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 431- For MSW-2000, A2000/P, M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
SRW-5000_DR-508_12P_5

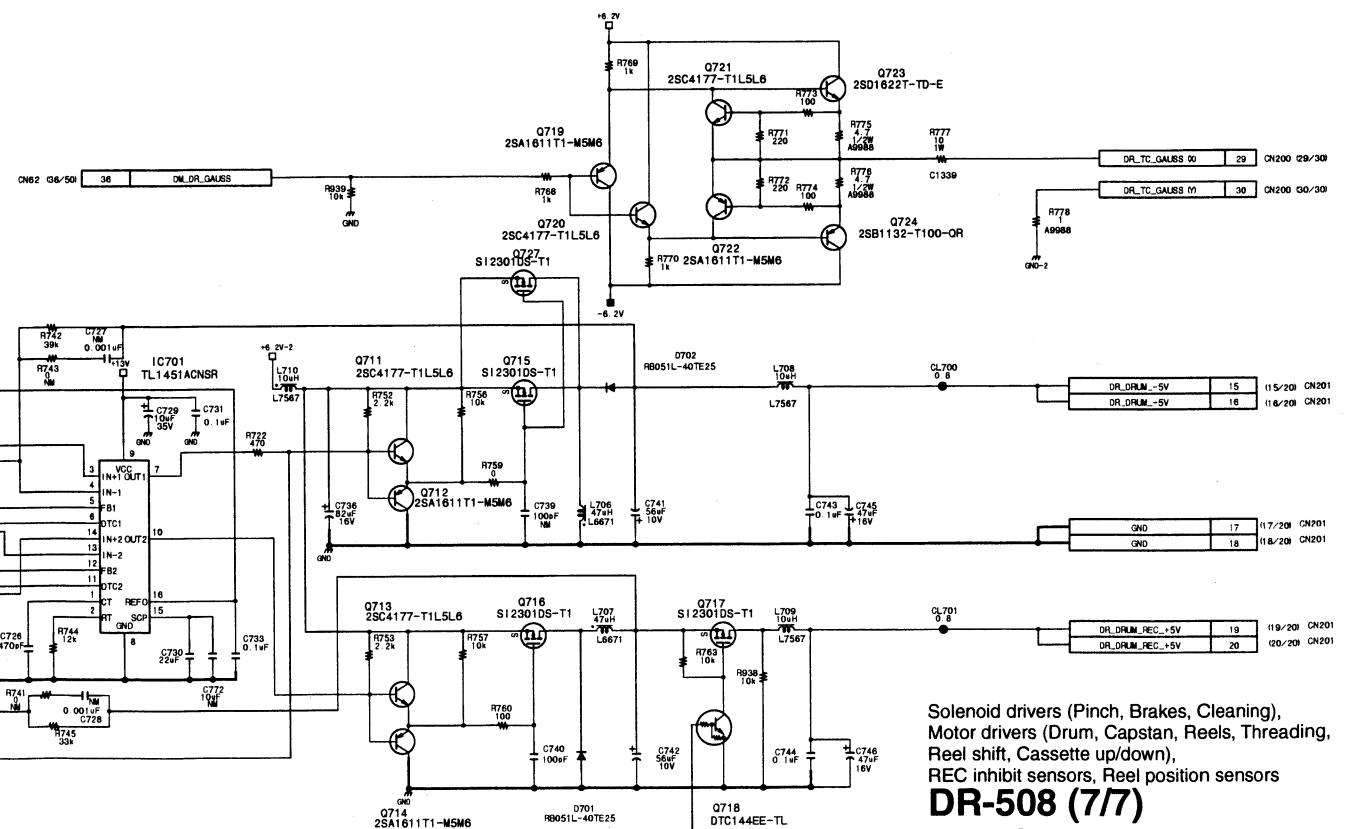
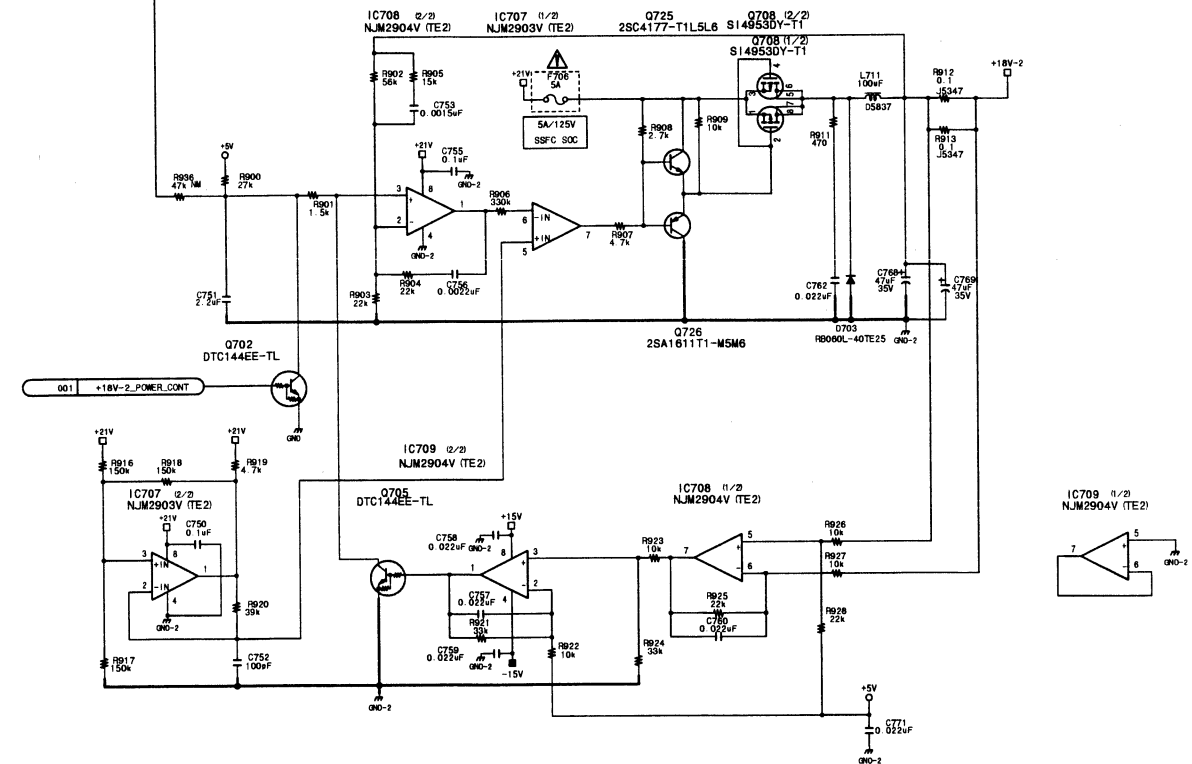


Solenoid drivers (Pinch, Brakes, Cleaning),
Motor drivers (Drum, Capstan, Reels, Threading,
Reel shift, Cassette up/down),
REC inhibit sensors, Reel position sensors

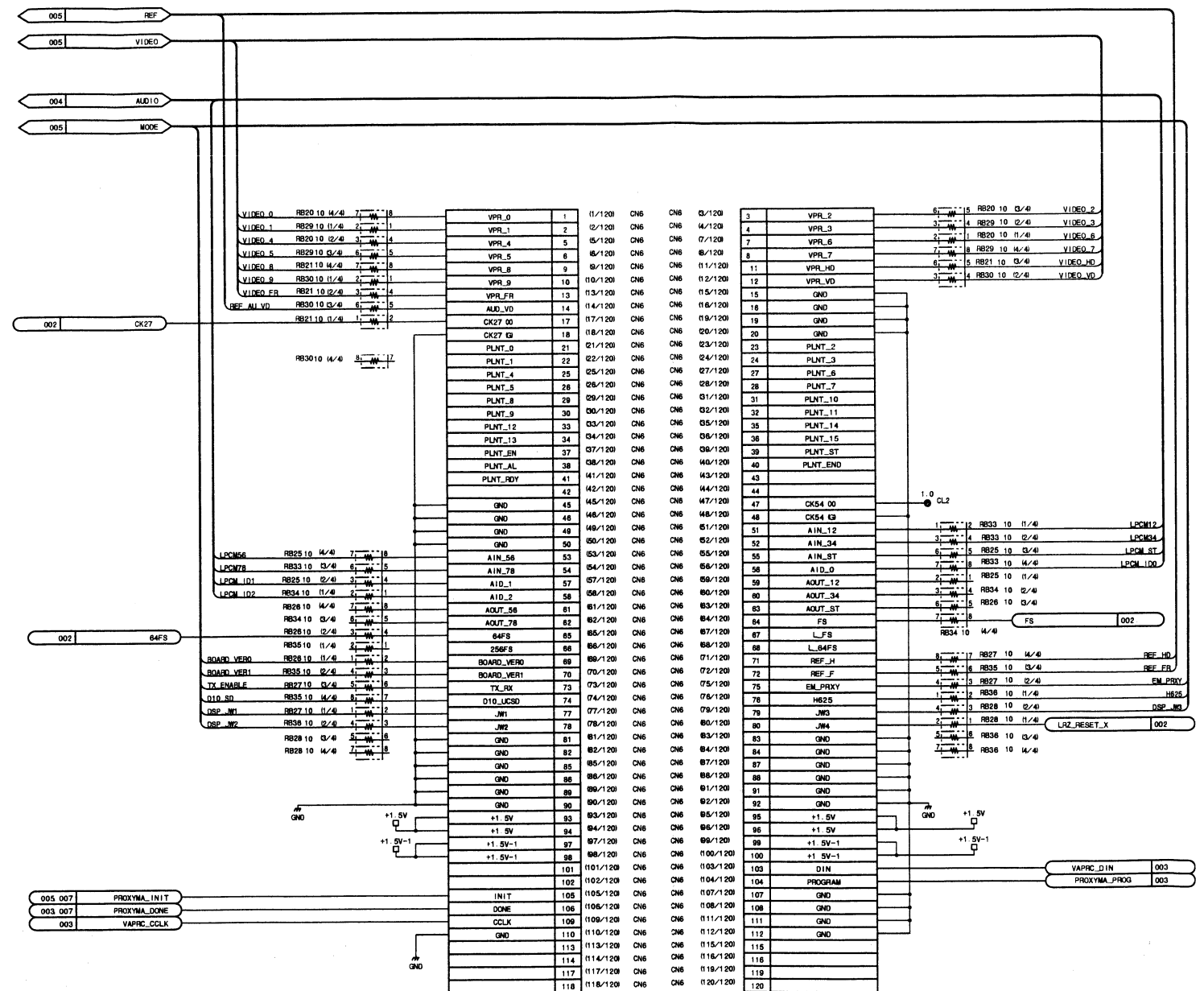
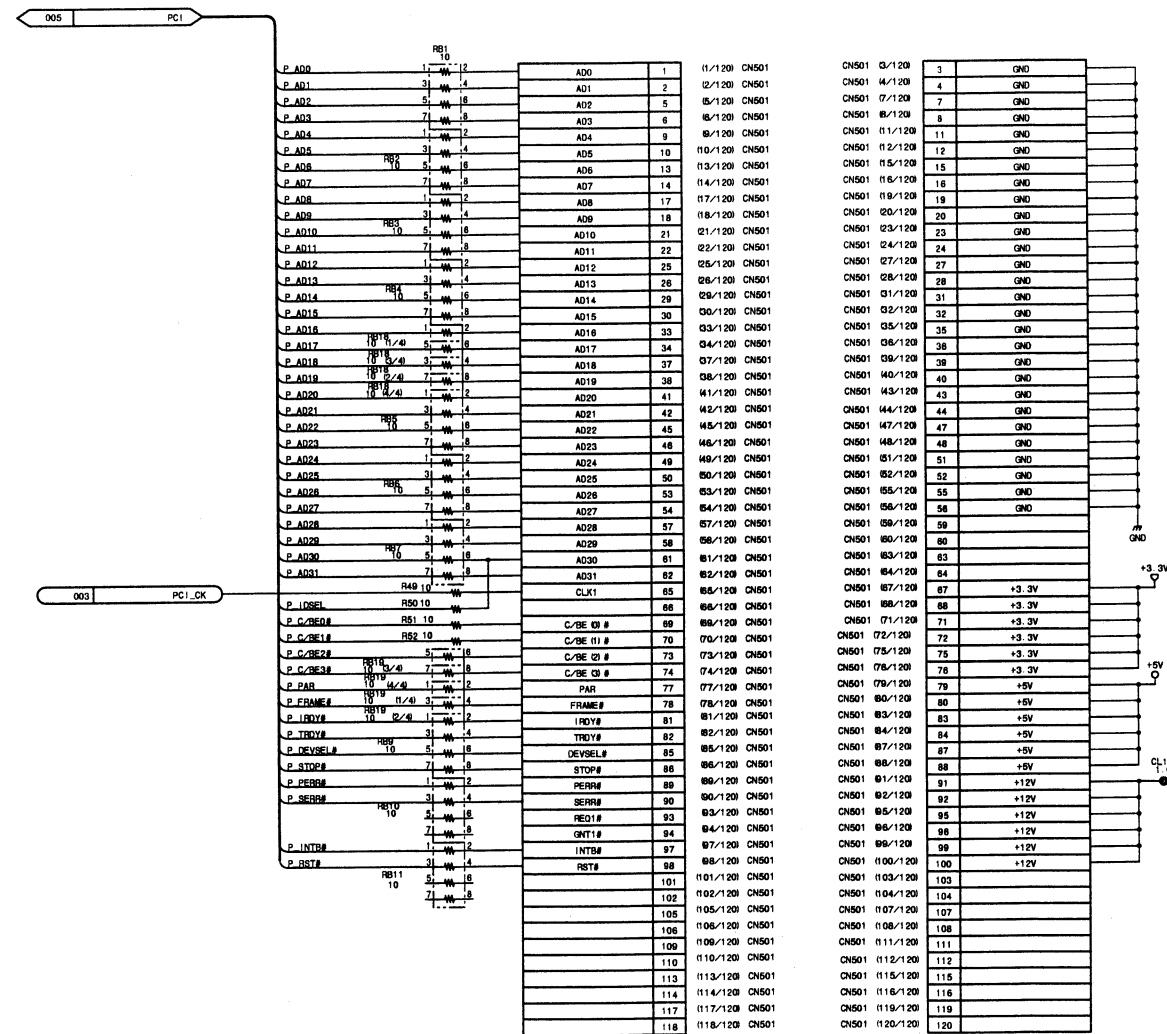
DR-508 (6/7)

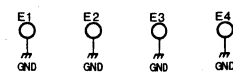
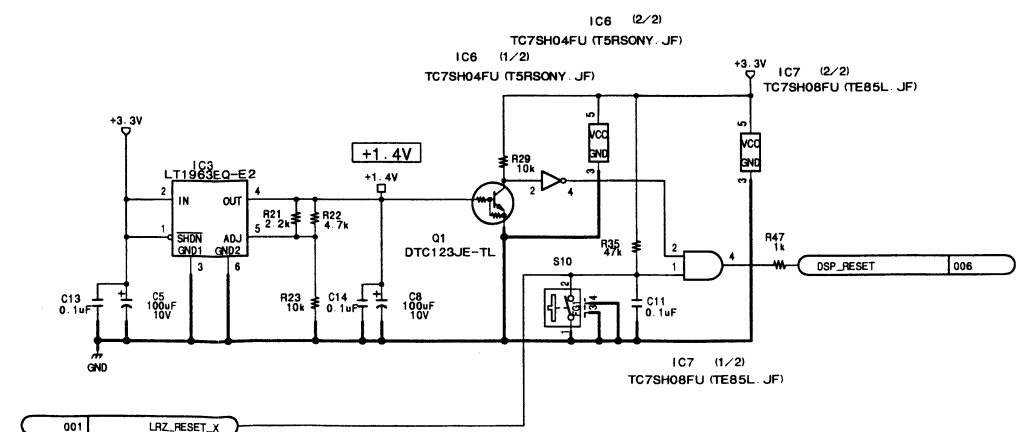
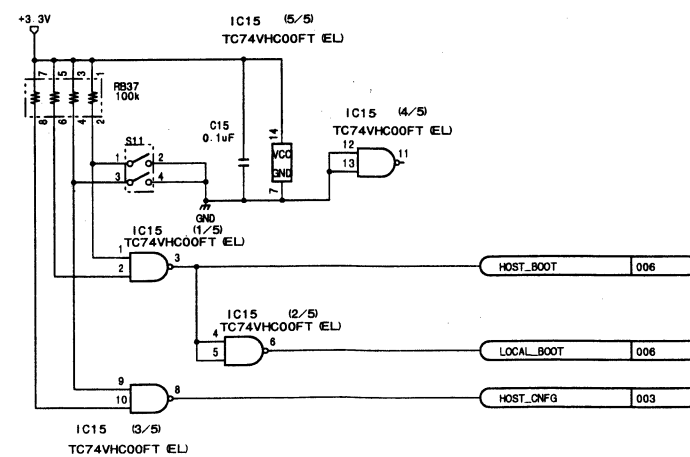
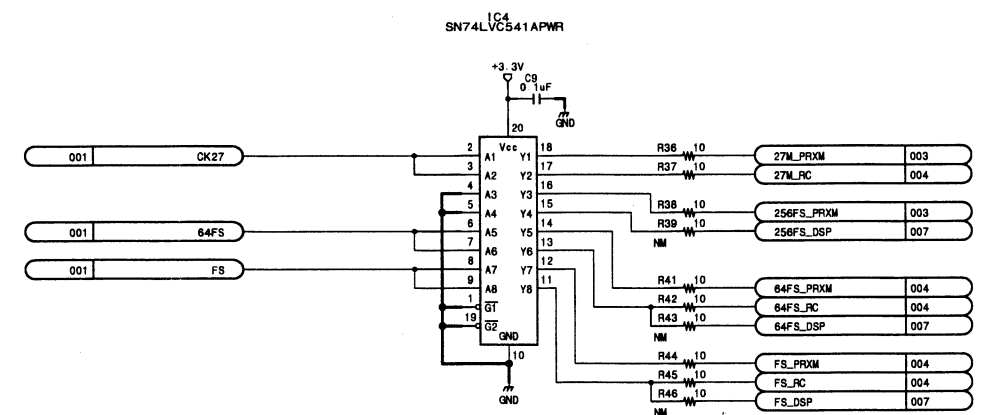
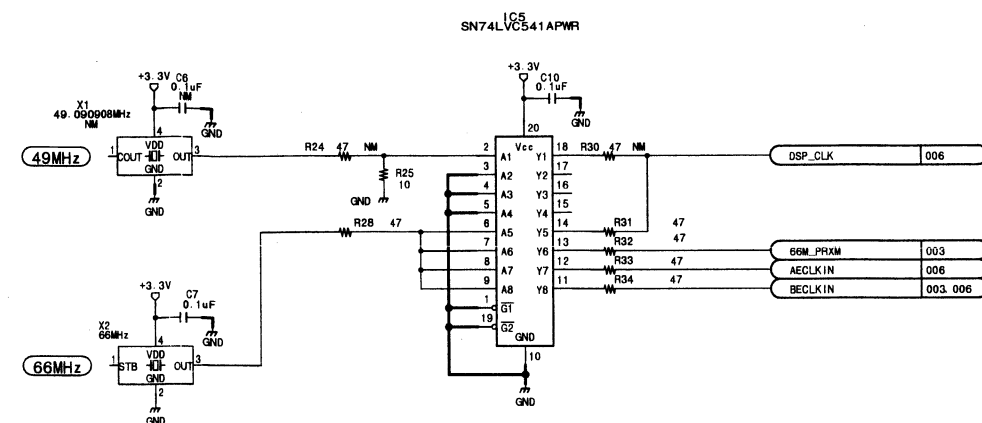
BOARD NO. 1-689-488-12
LOT NO. 431- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 431- For MSW-2000, A2000/P, M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
SRW-5000_DR-508_12P_6

DR-508 (7/7)
LOT NO. 431-



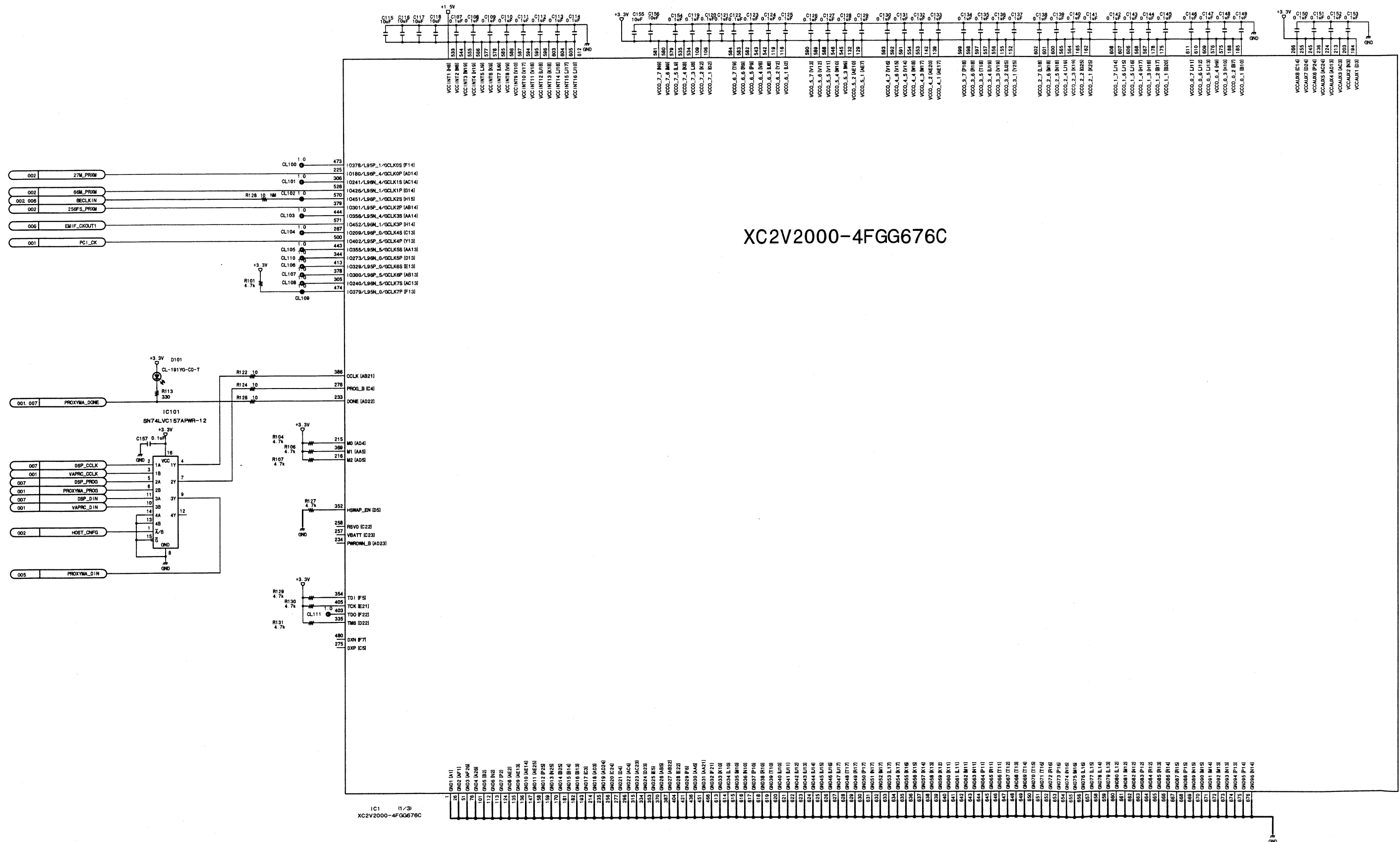
HDW series, DVW series, MSW series





Proxy audio/video signal processor
DSP-109 (2/7)
 BOARD NO. 1-863-832-11
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 For BKMW-E3000
 BKMW-E3000_DSP-109_11P_2

HDW series, DVW series, MSW series



Proxy audio/video signal processor
DSP-109 (3/7)
 BOARD NO. 1-863-832-11
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 For BKMW-E3000
 BKMW-E3000_DSP-109_11P_3

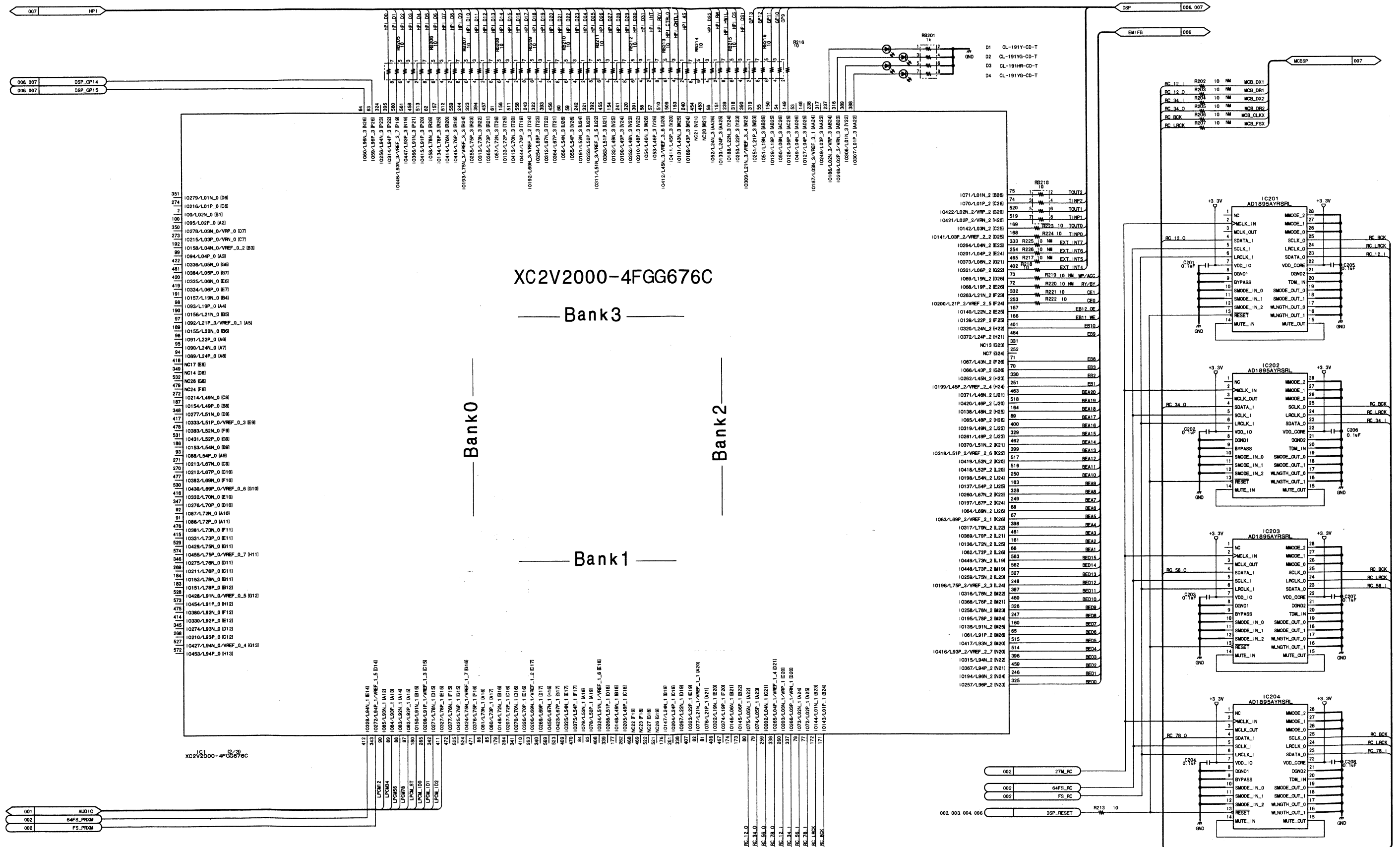
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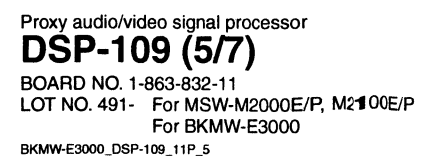
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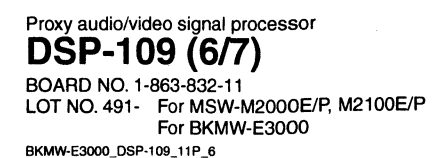
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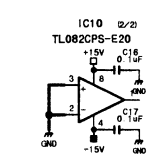
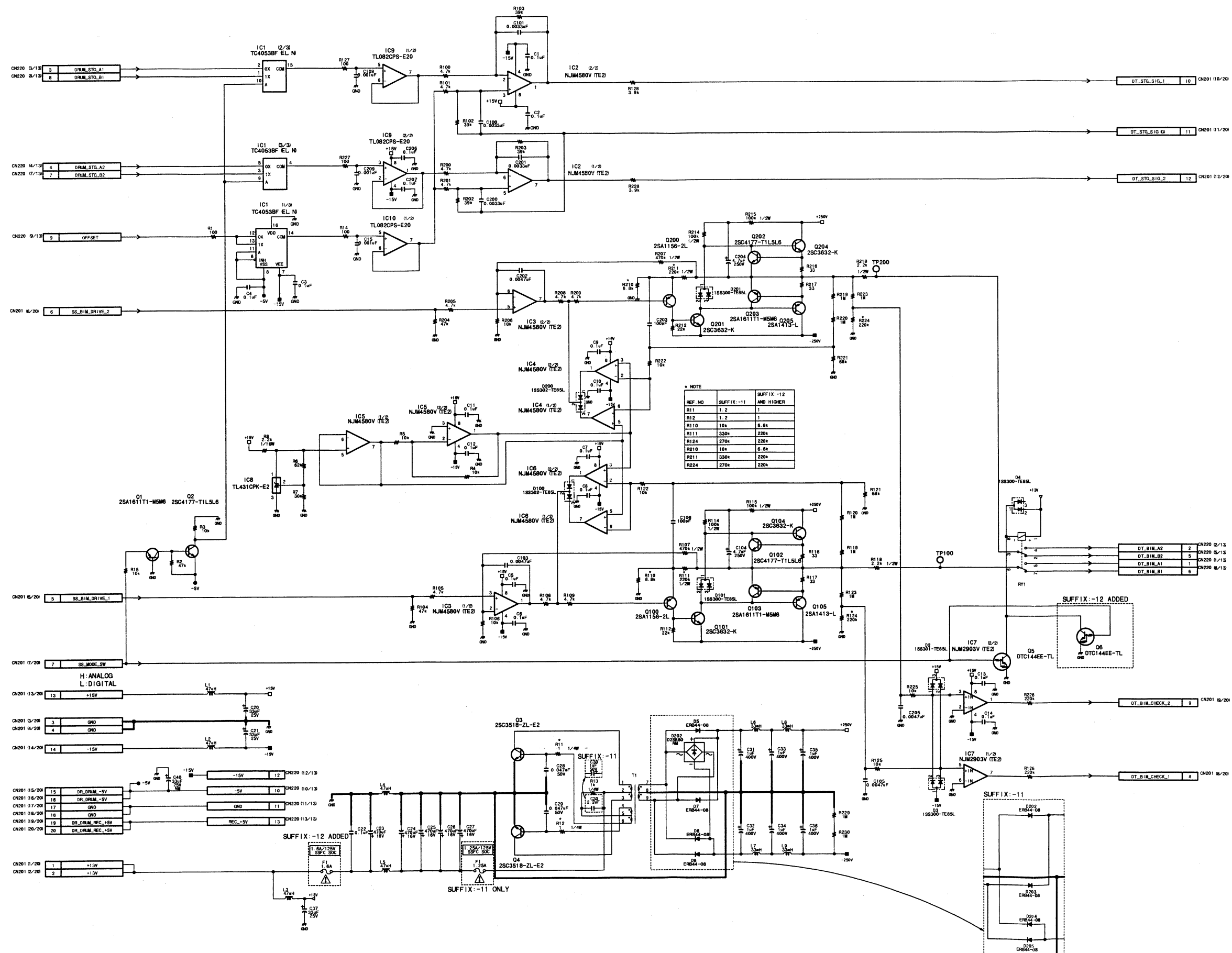


Proxy audio/video signal processor
DSP-109 (4/7)
 BOARD NO. 1-863-832-11
 LOT NO. 491- For MSW-M2000E/P, M2100E/P
 For BKMW-E3000
 BKMW-E3000_DSP-109_11P_4

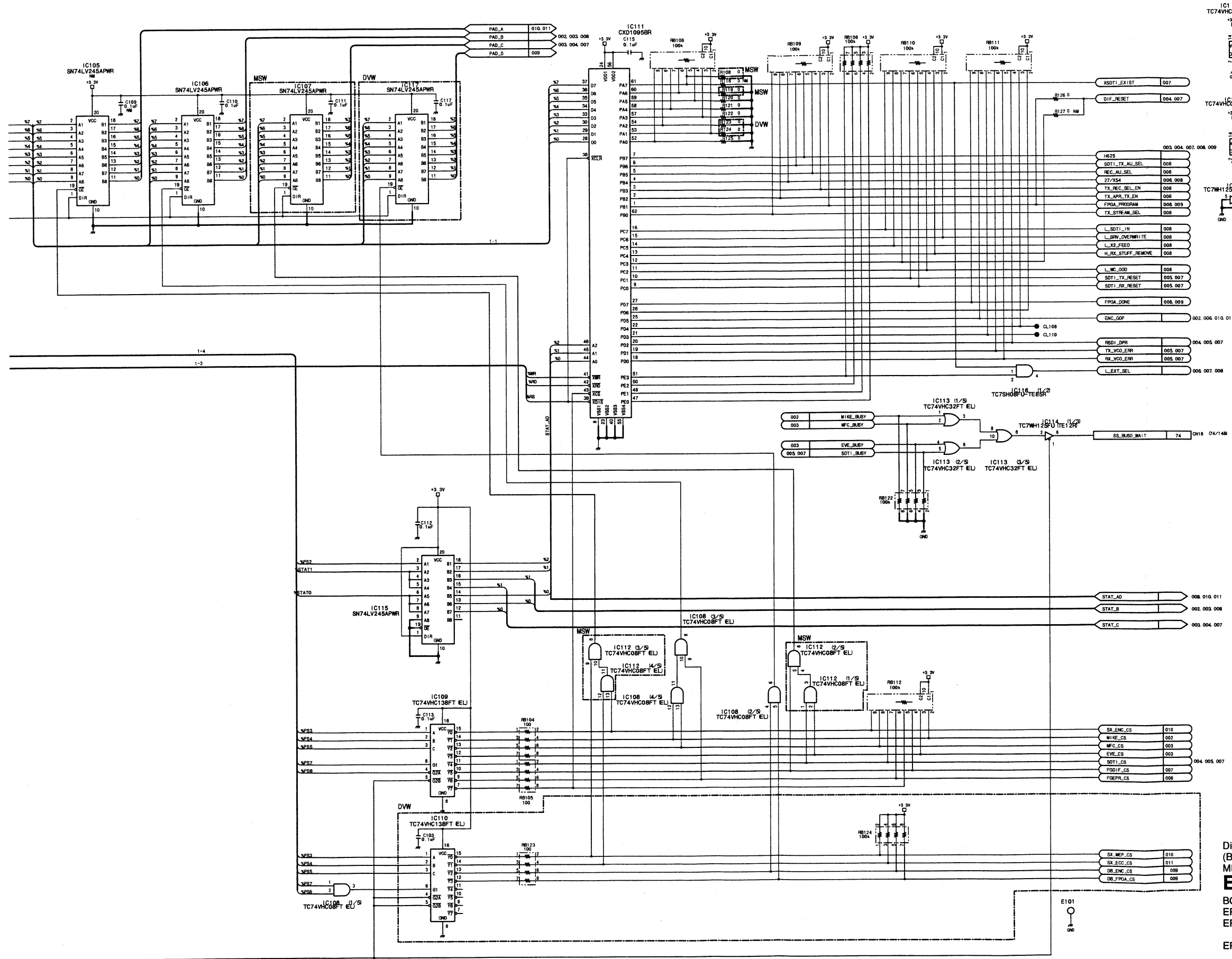








DT driver
DT-47
 BOARD NO. 1-677-280-11, 12
 LOT NO. 261-
 MSW-A2000_DT-47_010_1

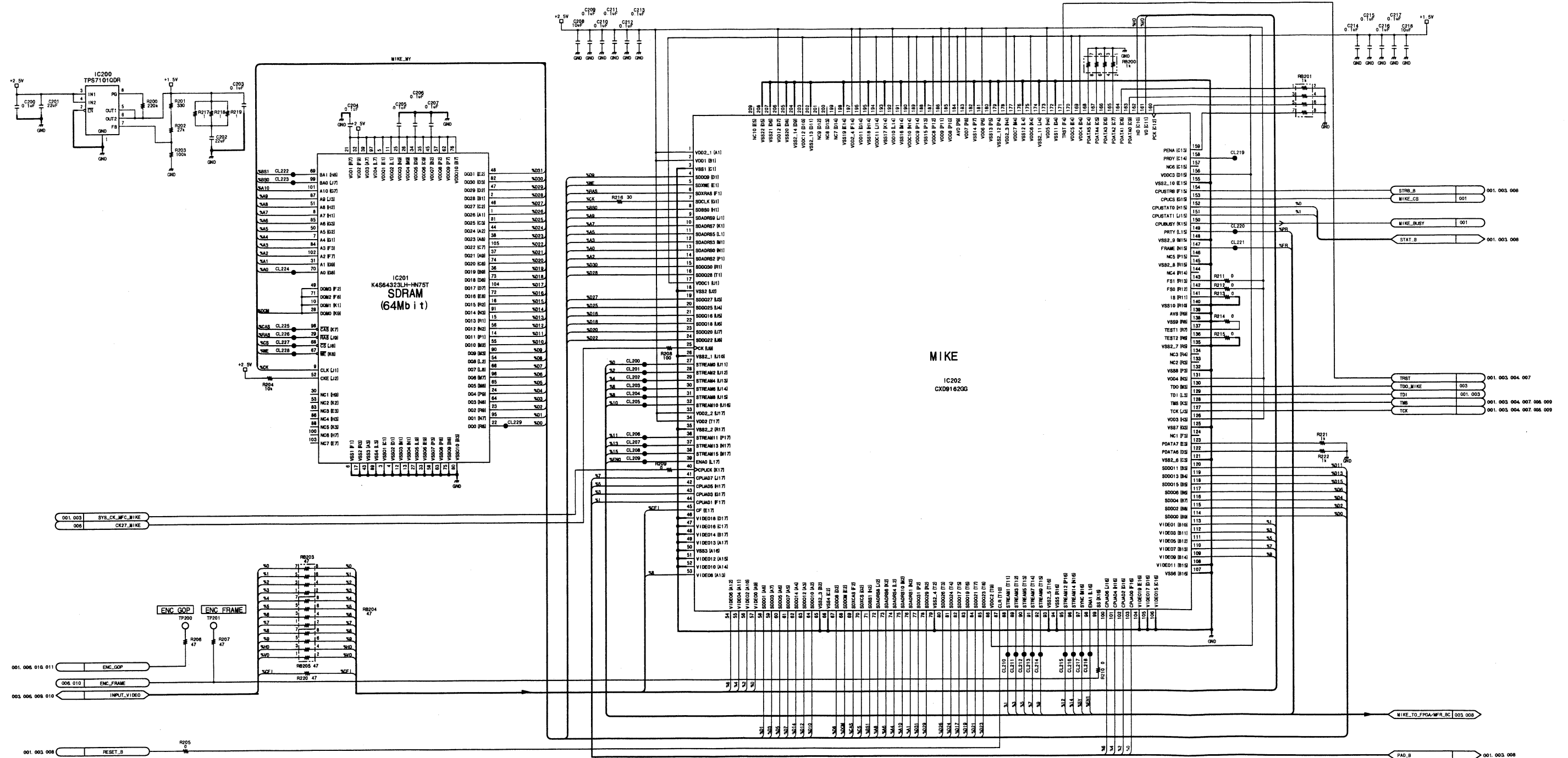


Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (1/11)

BOARD NO. 1-677-268-16
EPR-1C: LOT NO. 434- For DVW-2000/P, M2000P
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 421- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_1





Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

EPR-1 (2/11)

BOARD NO. 1-677-268-16

EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P

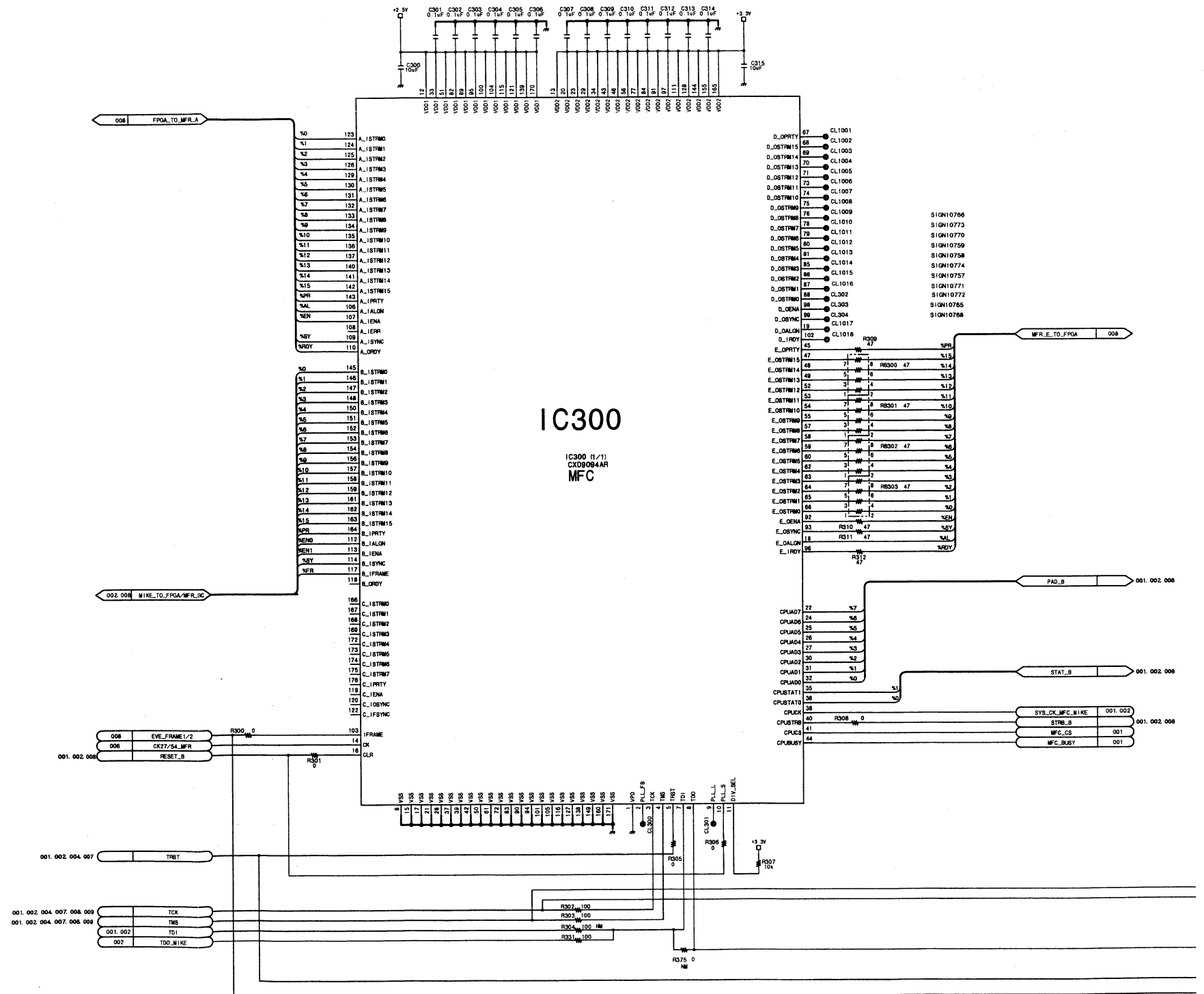
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P

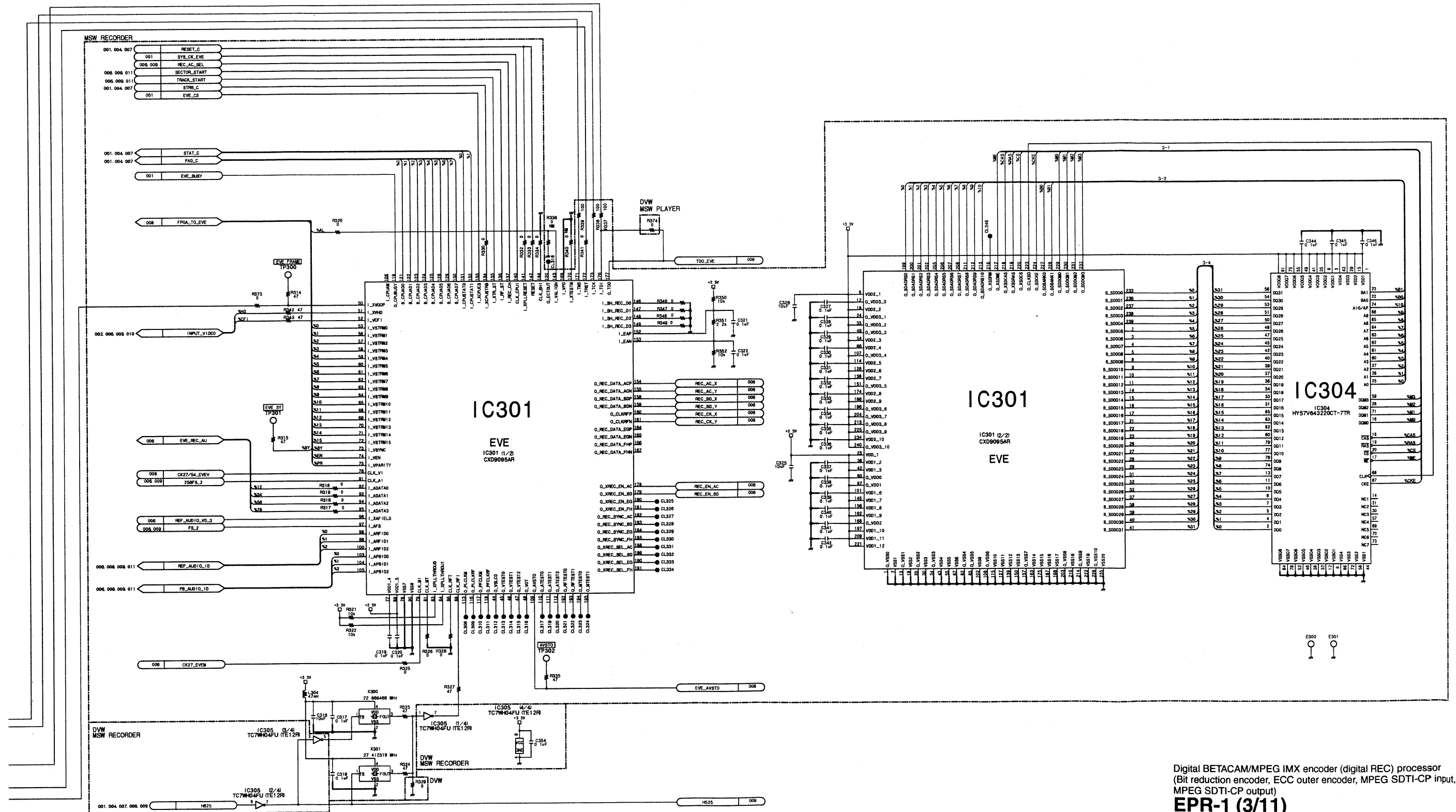
LOT NO. 491- For MSW-M2000E/P

EPR-1BA: LOT NO. 421- For MSW-M2100/P

LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_2





Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

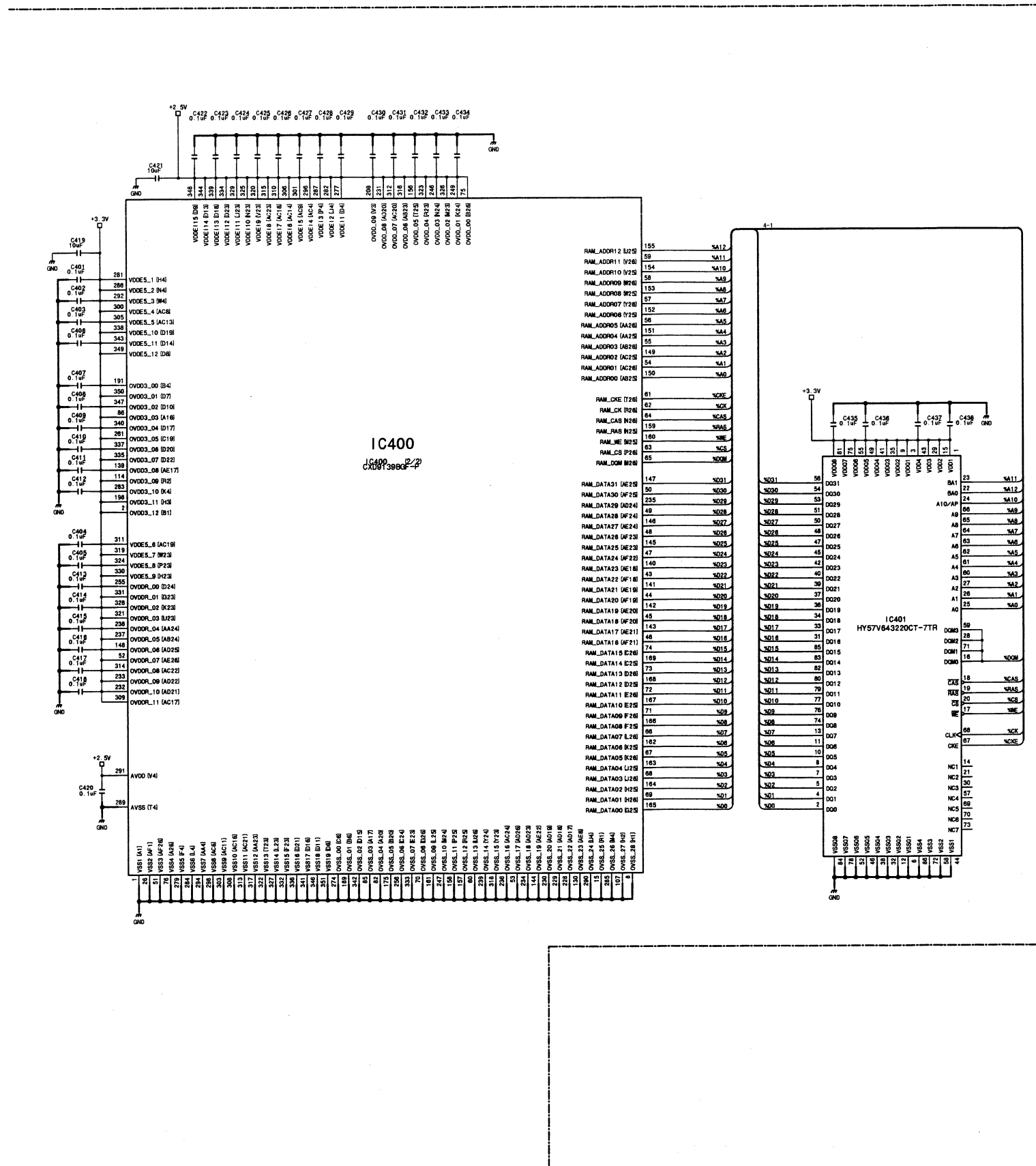
EPR-1 (3/11)

BOARD NO. 1-677-268-16

EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 421- For MSW-M2000E/P
LOT NO. 491- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_3





Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

EPR-1 (4/11)

BOARD NO. 1-677-268-16

EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P

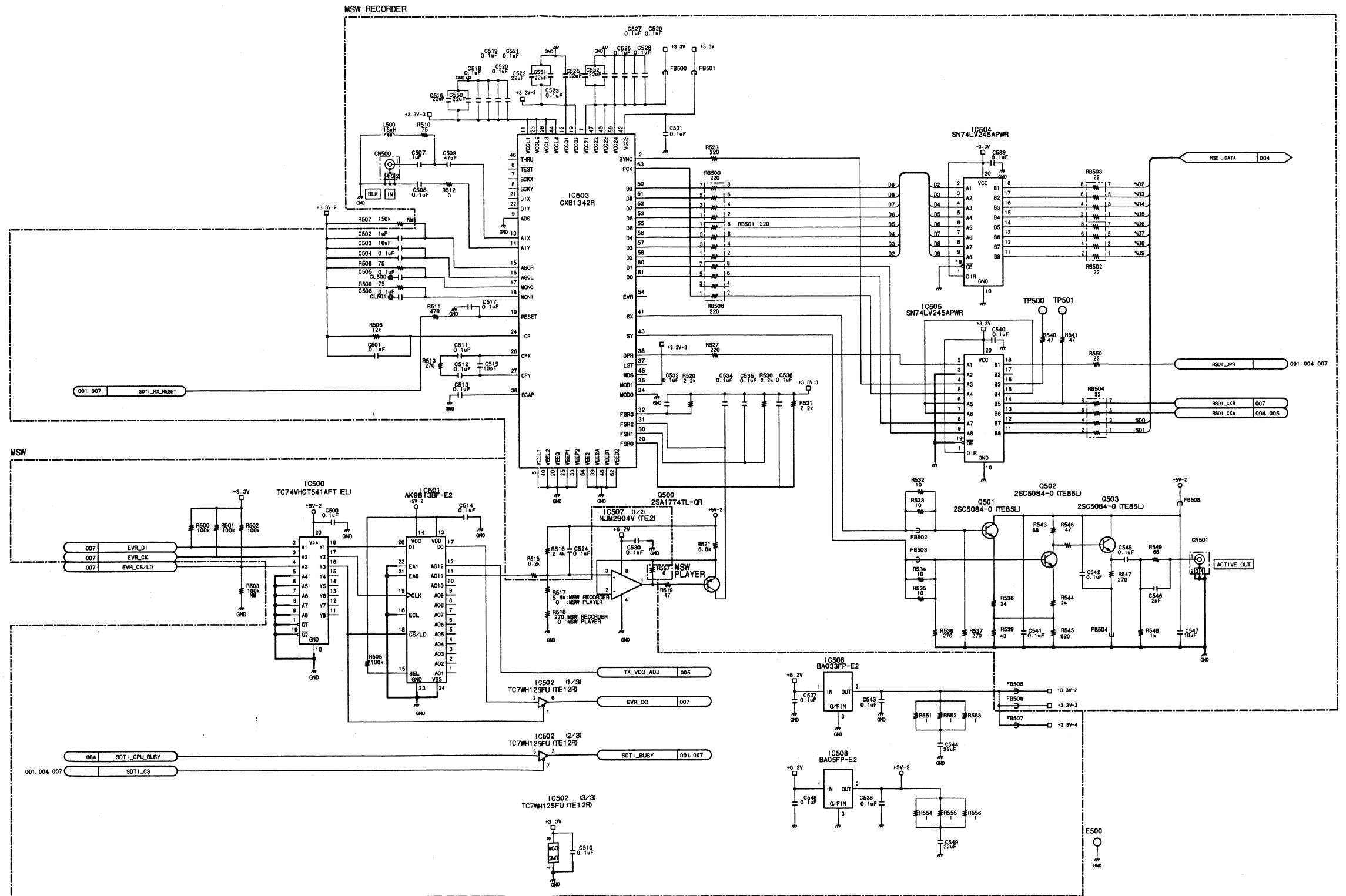
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P

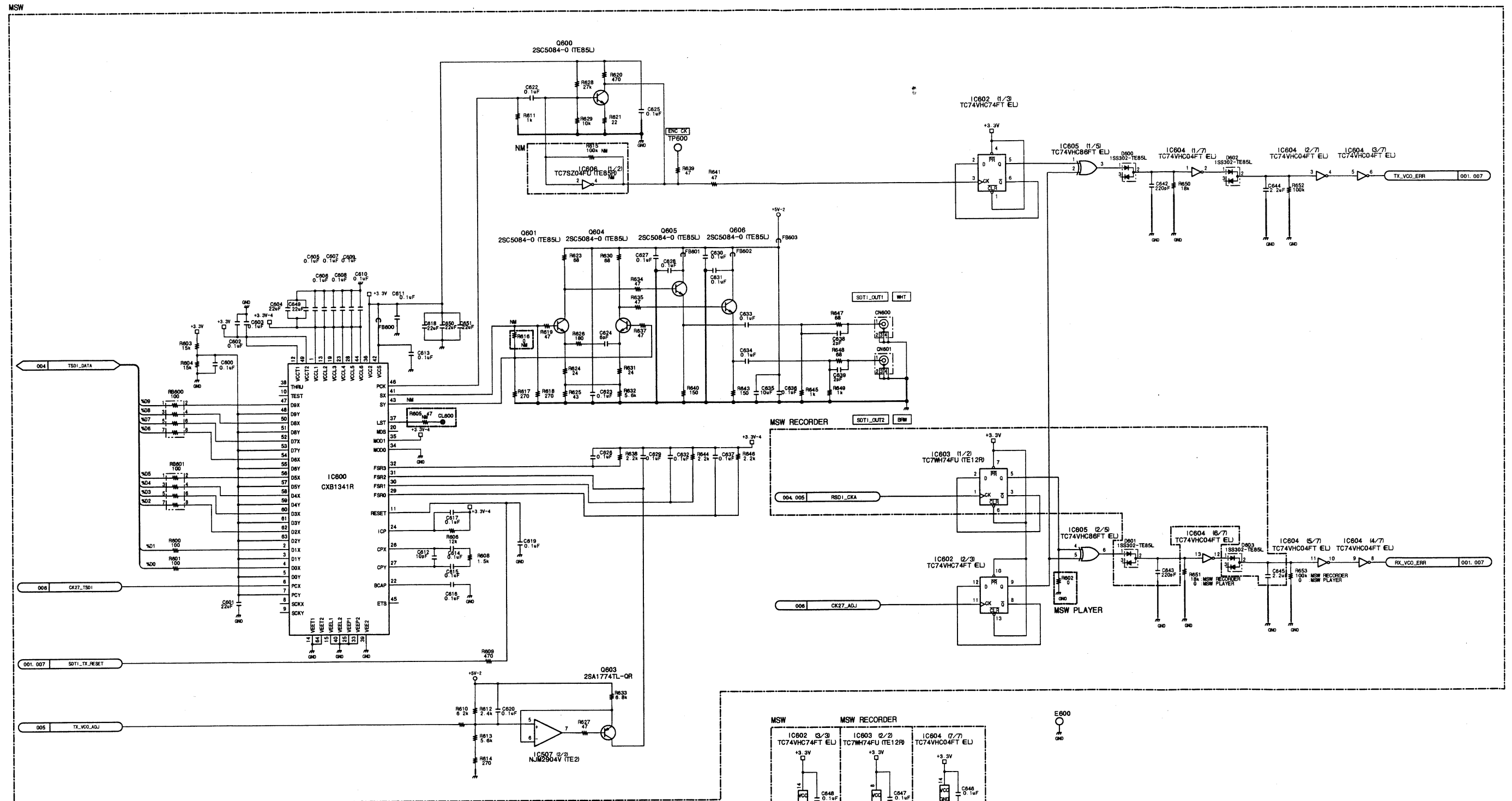
LOT NO. 491- For MSW-M2000E/P

EPR-1BA: LOT NO. 421- For MSW-M2100/P

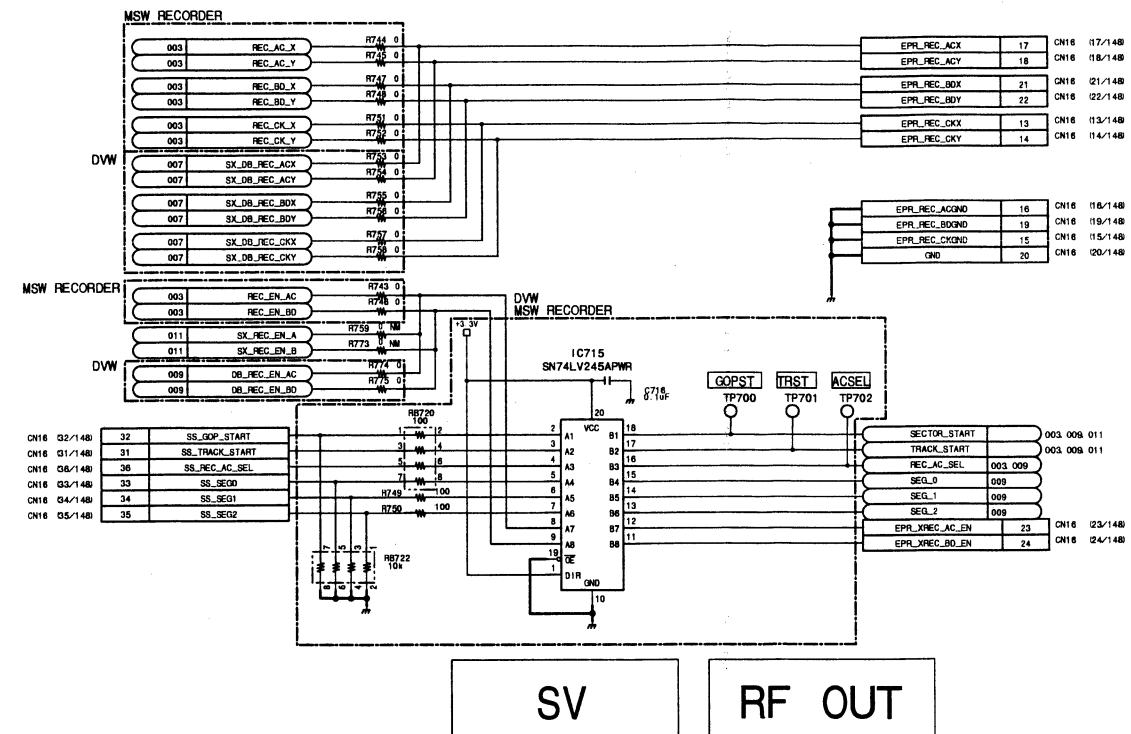
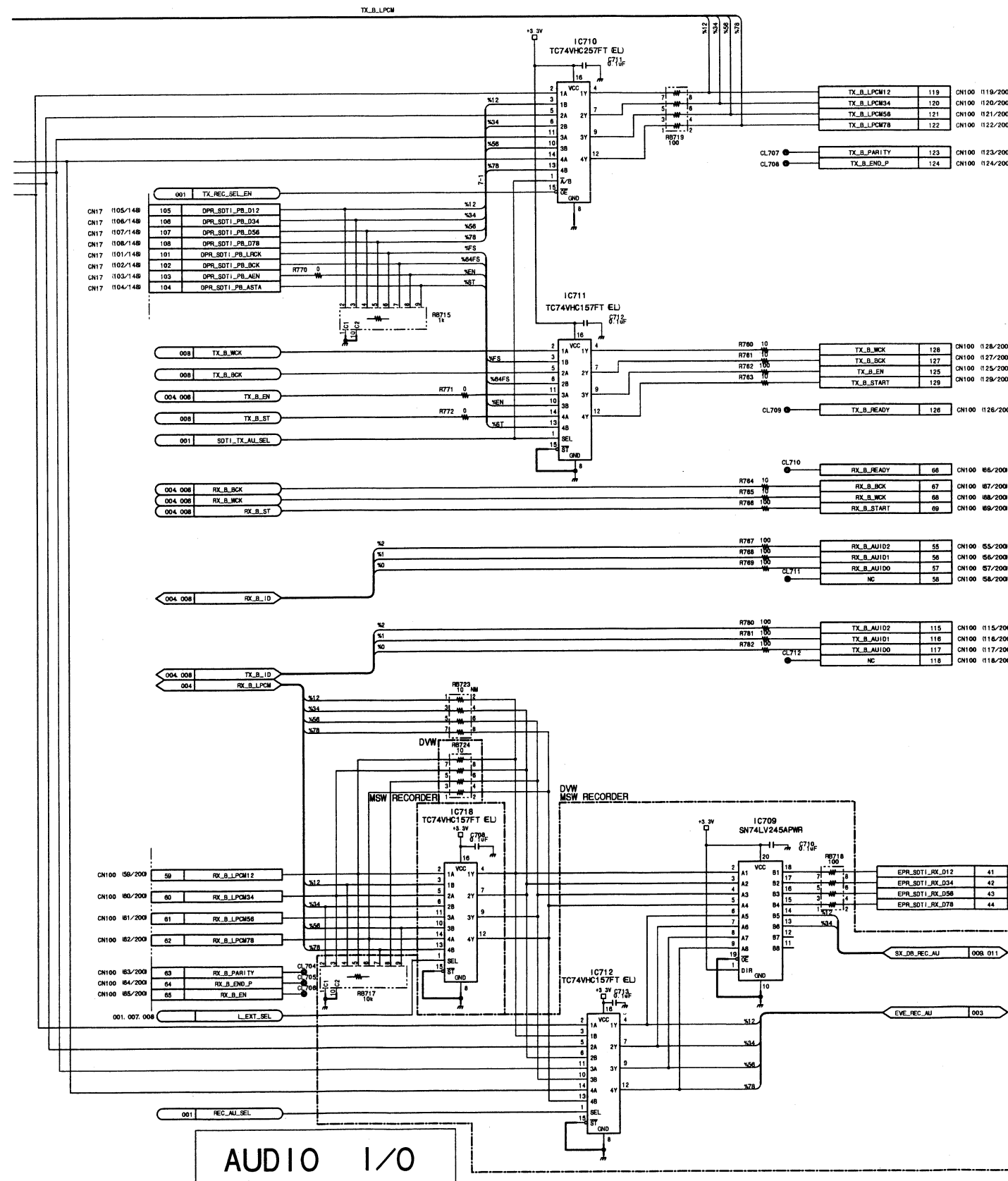
LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_4





Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (5/11)
BOARD NO. 1-677-268-16
EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
EPR-1BA: LOT NO. 421- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P
MFV5_EPR-1_16P_5



Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

EPR-1 (6/11)

BOARD NO. 1-677-268-16

EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P

EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P

LOT NO. 491- For MSW-M2000E/P

EPR-1BA: LOT NO. 421- For MSW-M2100/P

LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_6

1

2

3

4

5

CN100	01/2011	71	NC
CN100	02/2011	72	NC
CN100	03/2011	73	NC
CN100	04/2011	74	NC
CN100	05/2011	75	NC
CN100	06/2011	76	NC
CN100	07/2011	77	NC
CN100	08/2011	78	NC
CN100	09/2011	79	NC
CN100	00/2011	80	NC
CN100	01/2011	81	NC
CN100	02/2011	82	NC
CN100	03/2011	83	EE
CN100	04/2011	84	NC
CN100	05/2011	85	NC
CN100	06/2011	86	NC

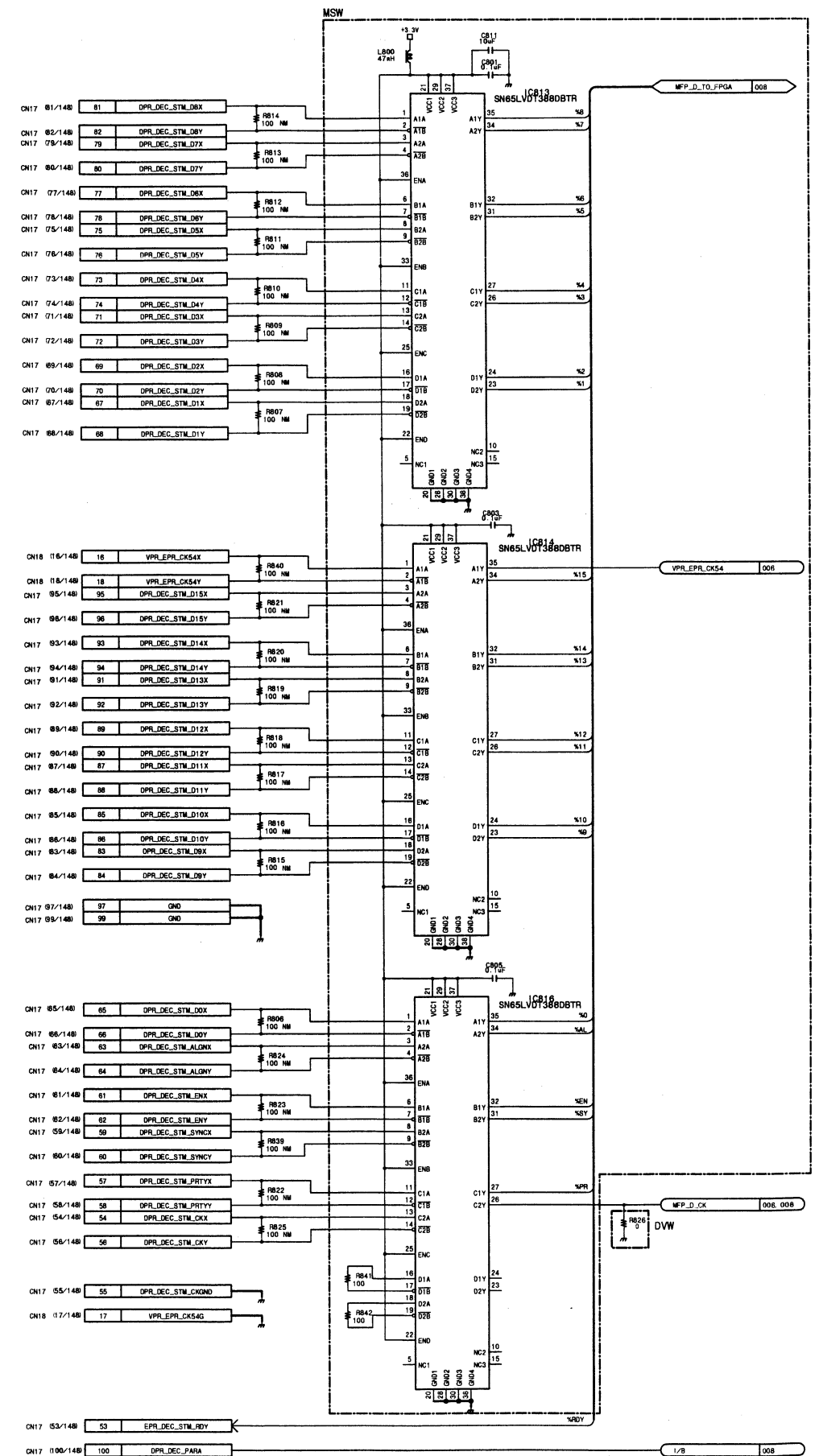
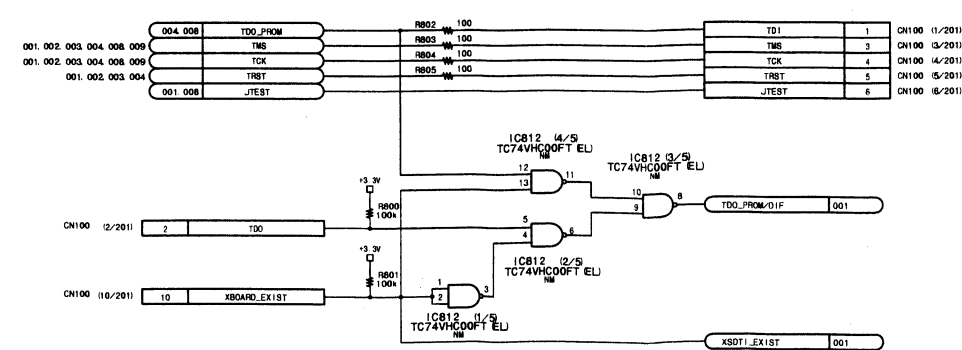
CN100	03/01/2001	131	NC
CN100	03/02/2001	132	NC
CN100	03/03/2001	133	NC
CN100	03/04/2001	134	NC
CN100	03/05/2001	135	NC
CN100	03/06/2001	136	NC
CN100	03/07/2001	137	NC
CN100	03/08/2001	138	NC
CN100	03/09/2001	139	NC
CN100	04/00/2001	140	NC
CH100	04/01/2001	141	NC
CH100	04/02/2001	142	NC
CN100	04/03/2001	143	NC
CN100	04/04/2001	144	NC
CN100	04/05/2001	145	NC
CN100	04/06/2001	146	NC
CN100	07/08/2001	178	NC

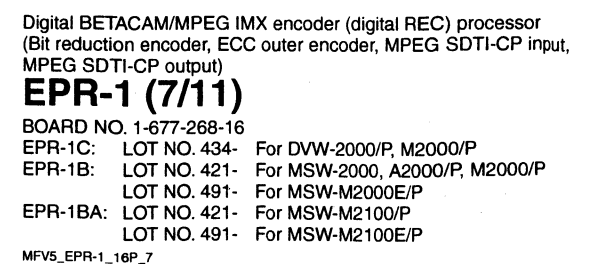
CN100 (177/201)	177	+2.5V
CN100 (178/201)	178	+2.5V
CN100 (179/201)	179	+2.5V
CN100 (180/201)	180	+2.5V

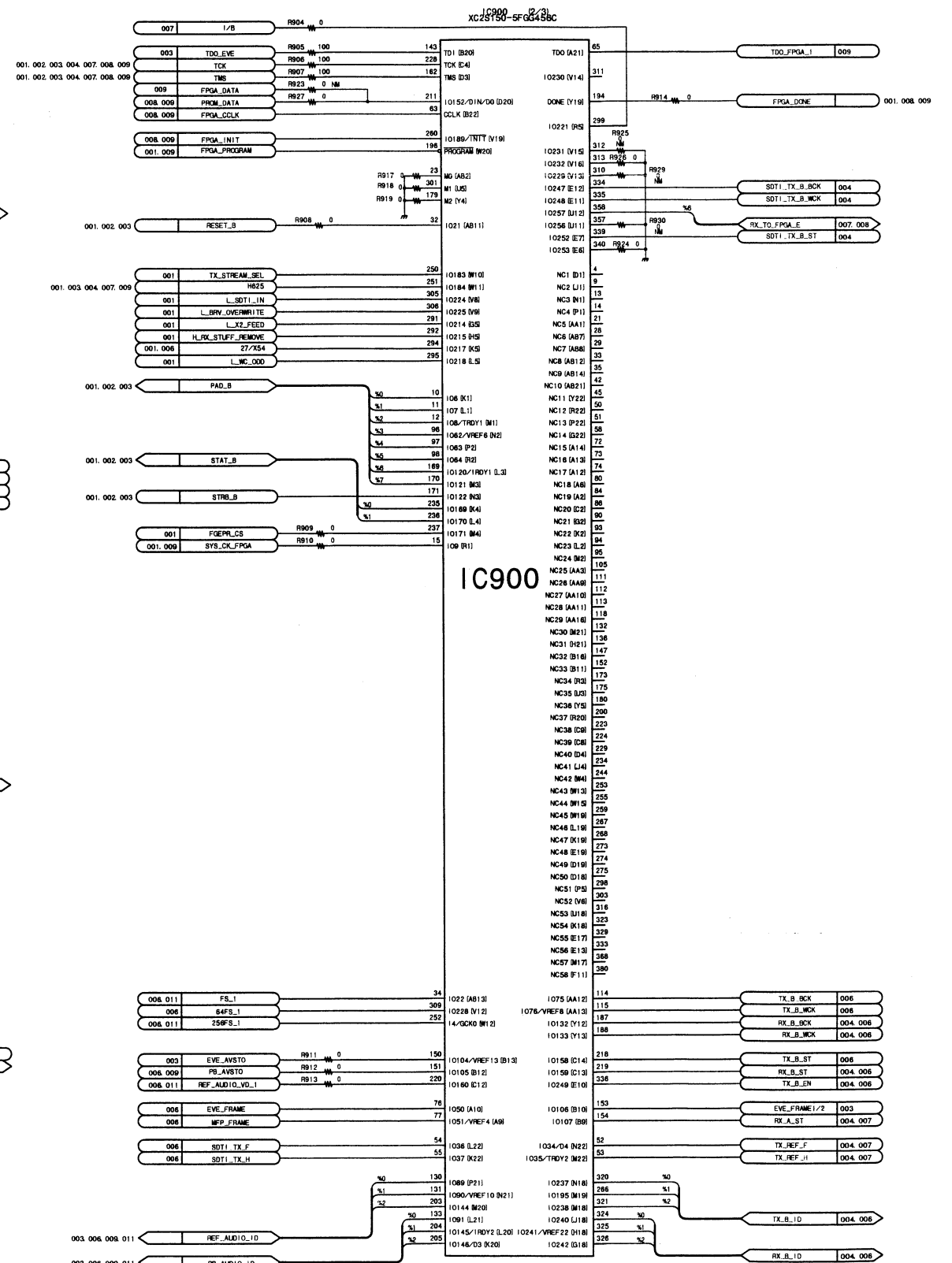
CN100 (181/201)	181	+3.3V	
CN100 (182/201)	182	+3.3V	
CN100 (183/201)	183	+3.3V	
CN100 (184/201)	184	+3.3V	
CN100 (185/201)	185	+3.3V	
CN100 (186/201)	186	+3.3V	

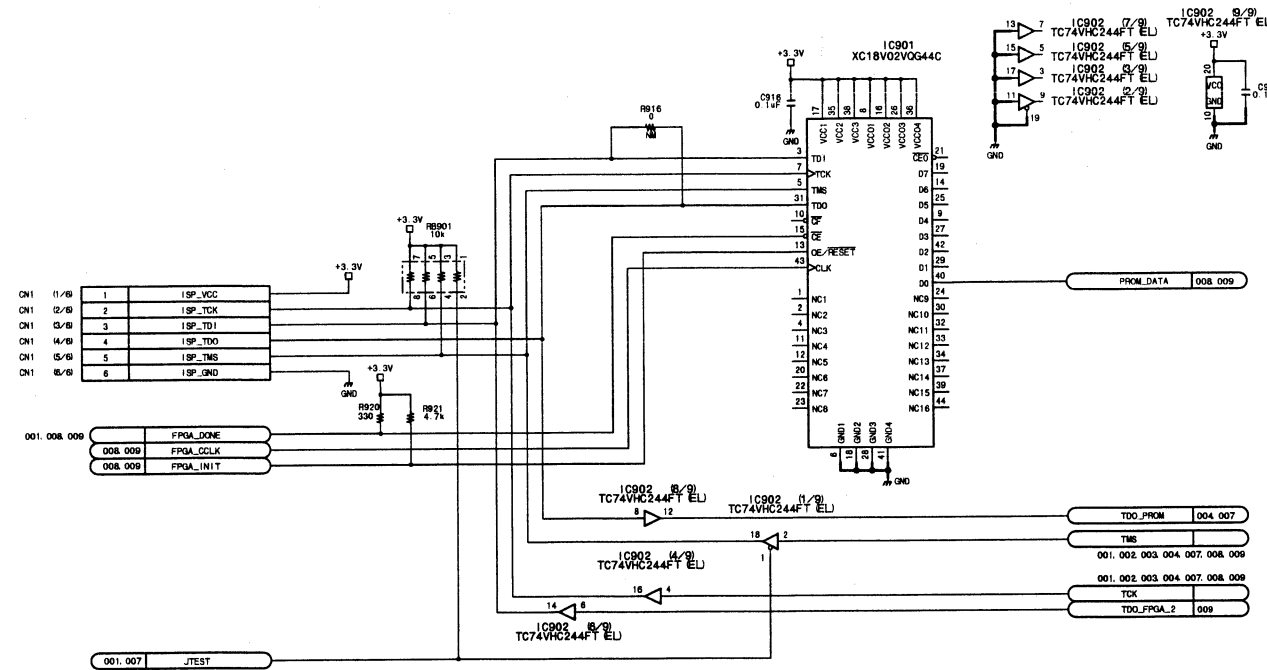
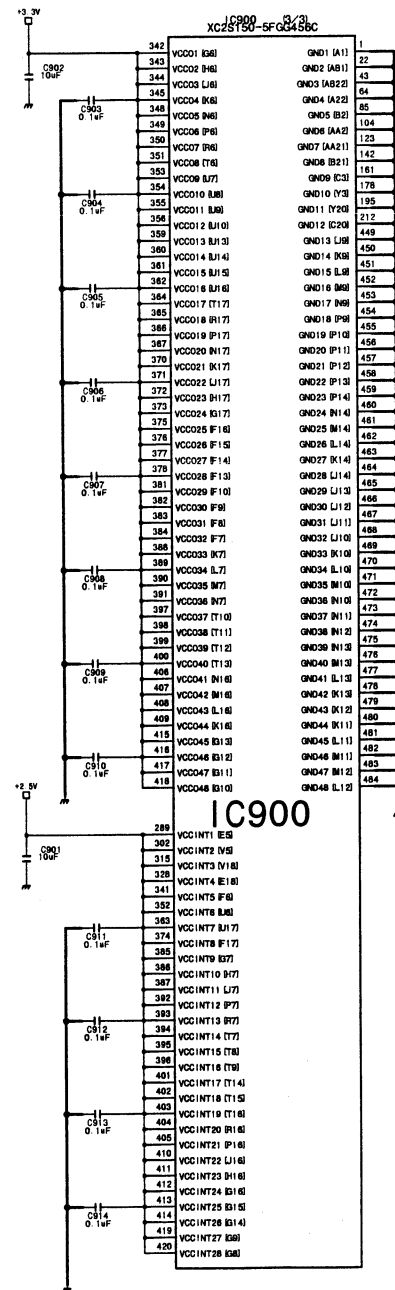
CN100	(187/201)	187	+5V
CN100	(188/201)	188	+5V
CN100	(189/201)	189	+5V
CN100	(190/201)	190	+5V
CN100	(191/201)	191	+5V
CN100	(192/201)	192	+5V

CN100	115/201	15	GND	
CN100	116/201	16	GND	
CN100	83/201	53	GND	
CN100	94/201	54	GND	
CN100	70/201	70	GND	
CN100	87/201	87	GND	
CN100	88/201	88	GND	
CN100	113/201	113	GND	
CN100	114/201	114	GND	
CN100	130/201	130	GND	
CN100	147/201	147	GND	
CN100	148/201	148	GND	
CN100	193/201	193	GND	
CN100	194/201	194	GND	
CN100	195/201	195	GND	
CN100	196/201	196	GND	
CN100	197/201	197	GND	
CN100	198/201	198	GND	
CN100	199/201	199	GND	
CN100	200/201	200	GND	









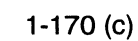
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

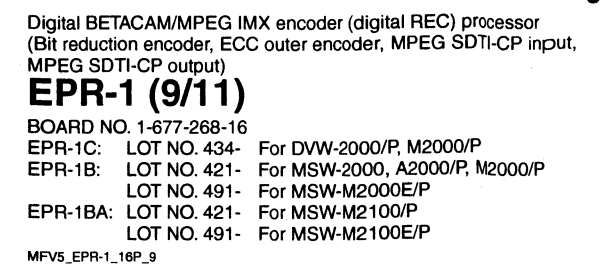
EPR-1 (8/11)

BOARD NO. 1-677-268-16

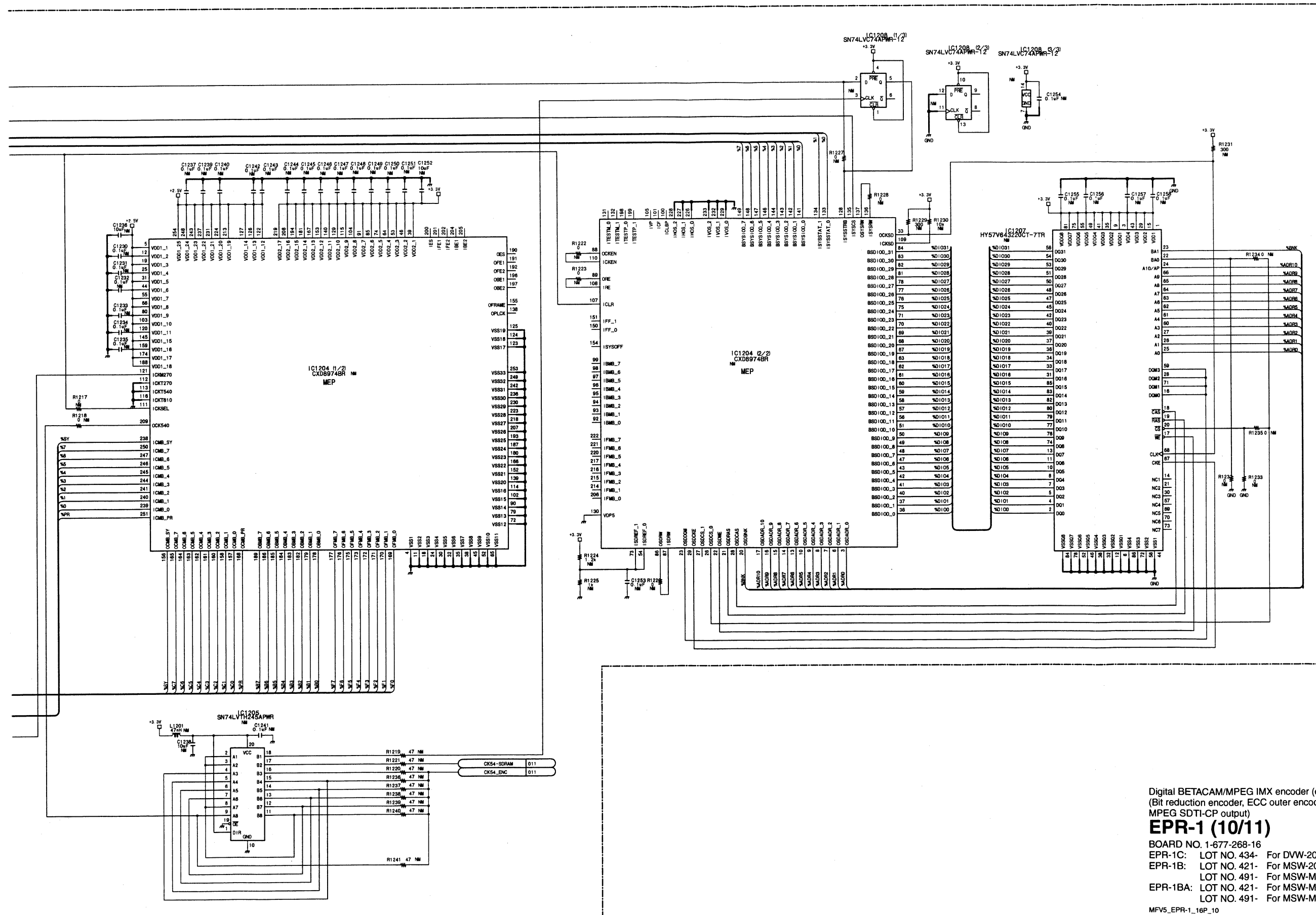
EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
EPR-1BA: LOT NO. 421- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_8









Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

EPR-1 (10/11)

BOARD NO. 1-677-268-16

EPR-1C: LOT NO. 434- For DVW-2000/P, M2000/P

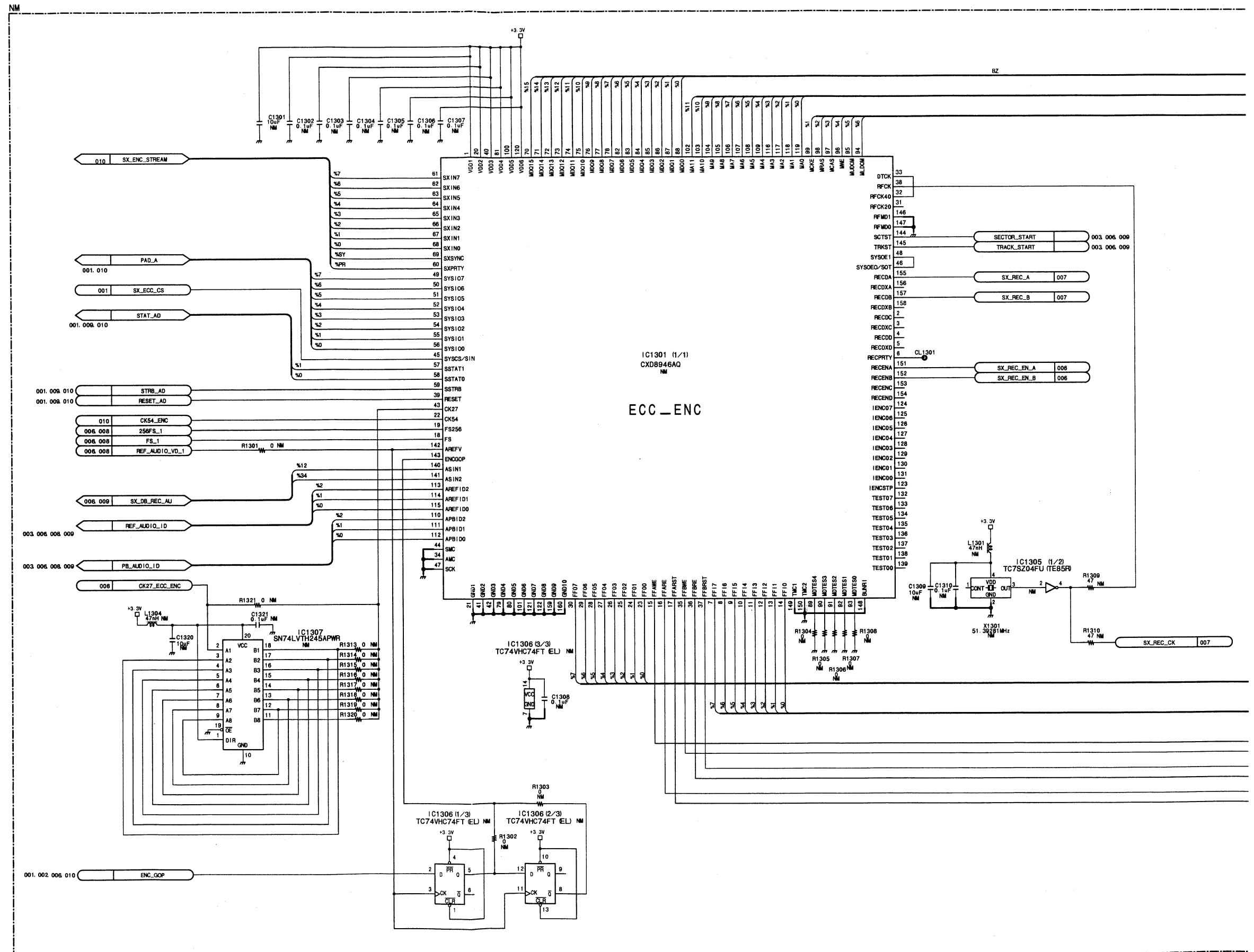
EPR-1B: LOT NO. 421- For MSW-2000, A2000/P, M2000/P

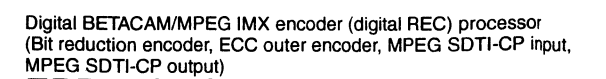
LOT NO. 491- For MSW-M2000E/P

EPR-1BA: LOT NO. 421- For MSW-M2100/P

LOT NO. 491- For MSW-M2100E/P

MFV5_EPR-1_16P_10



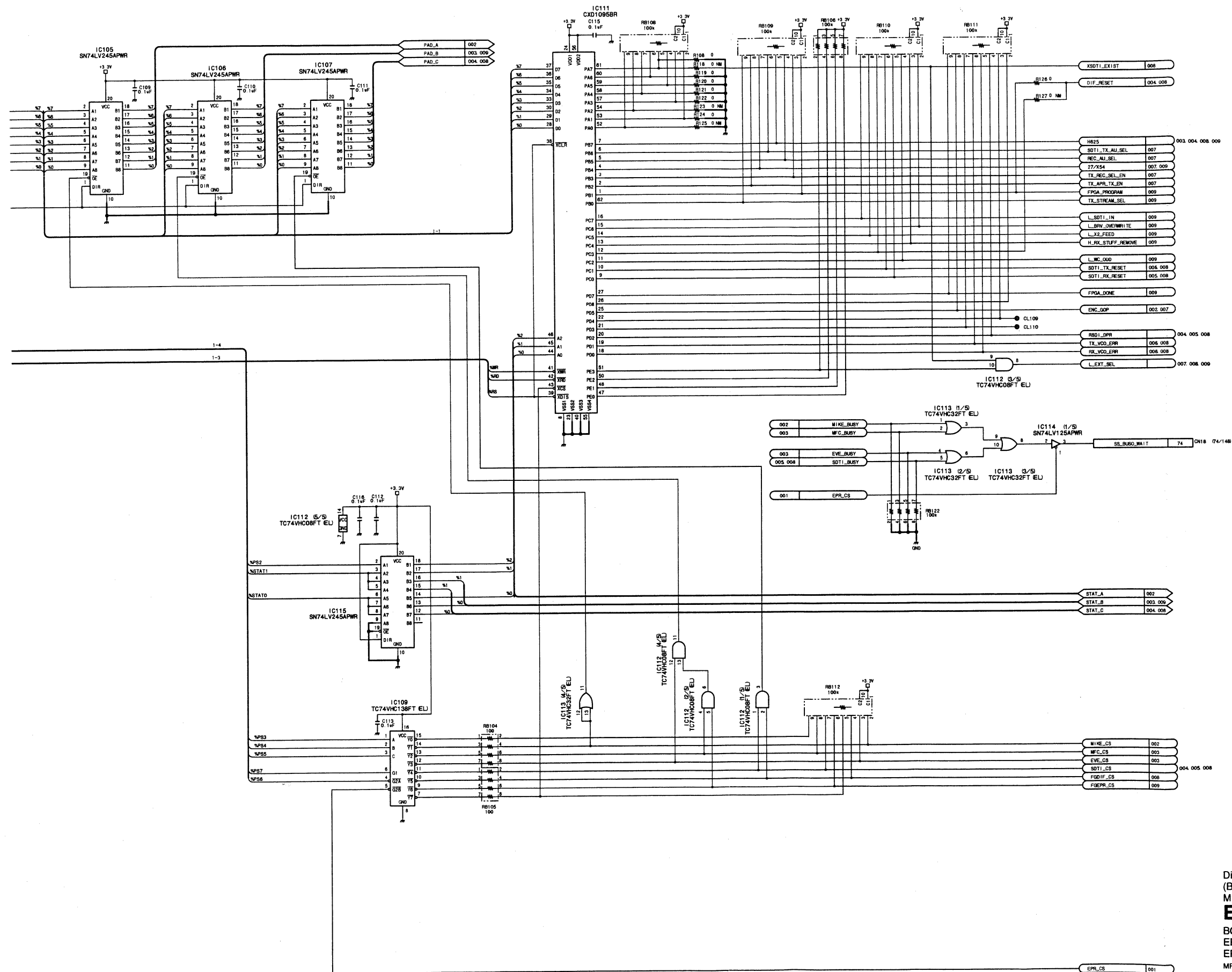


BOARD NO. 1-677-268-16

BOARD NO. 1-677-268-16
EPR-1C: LOT NO. 434 For DVW-2000/P, M2000/P
EPR-1B: LOT NO. 421 For MSW-2000, A2000/P, M2000/P
LOT NO. 491 For MSW-M2000E/P
EPR-1BA: LOT NO. 421 For MSW-M2100/P
LOT NO. 491 For MSW-M2100E/P

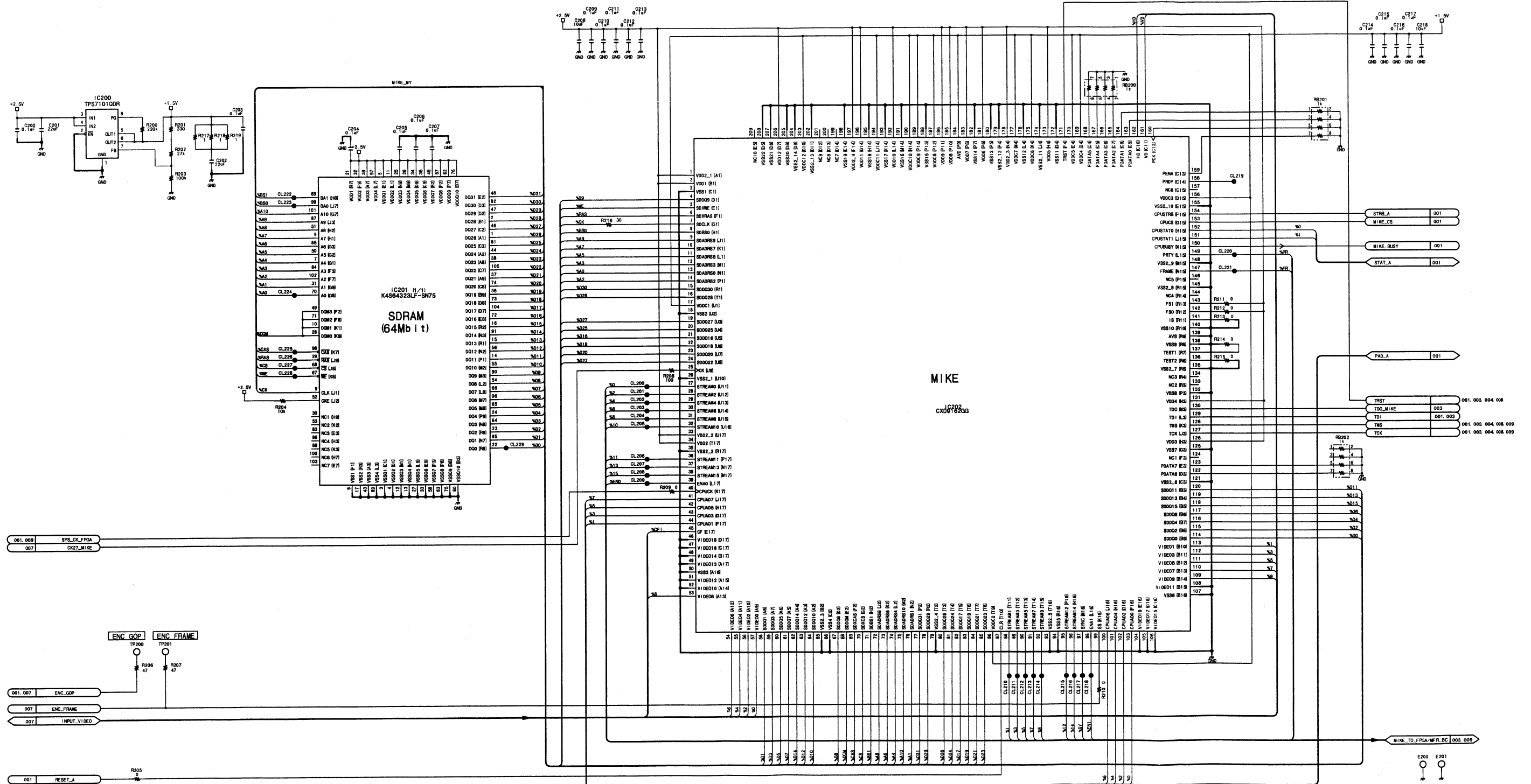
MSW EPR-1 (1/9)
SUFFIX: -15

EPR-1 (1/9) MSW
SUFFIX: -15

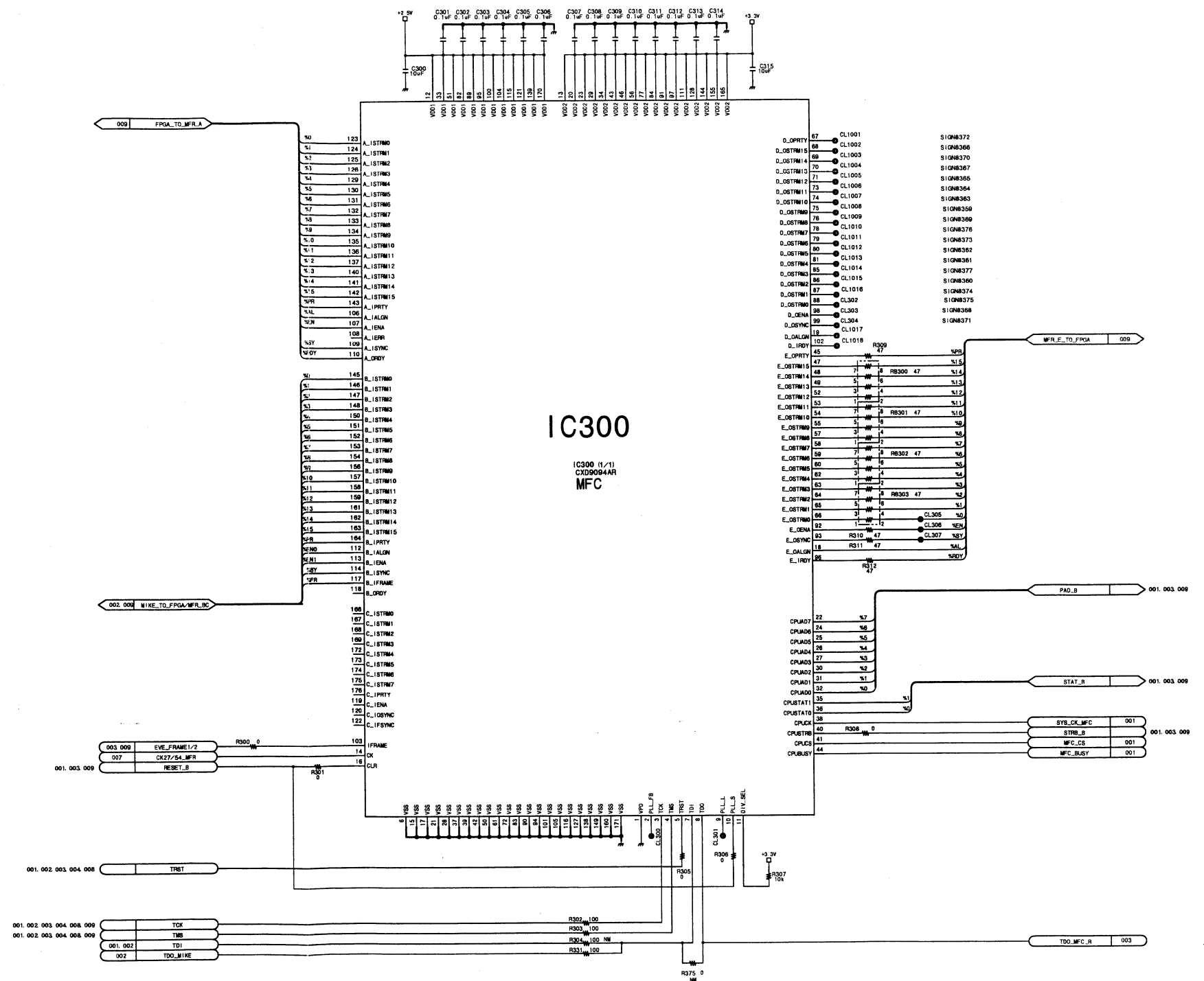


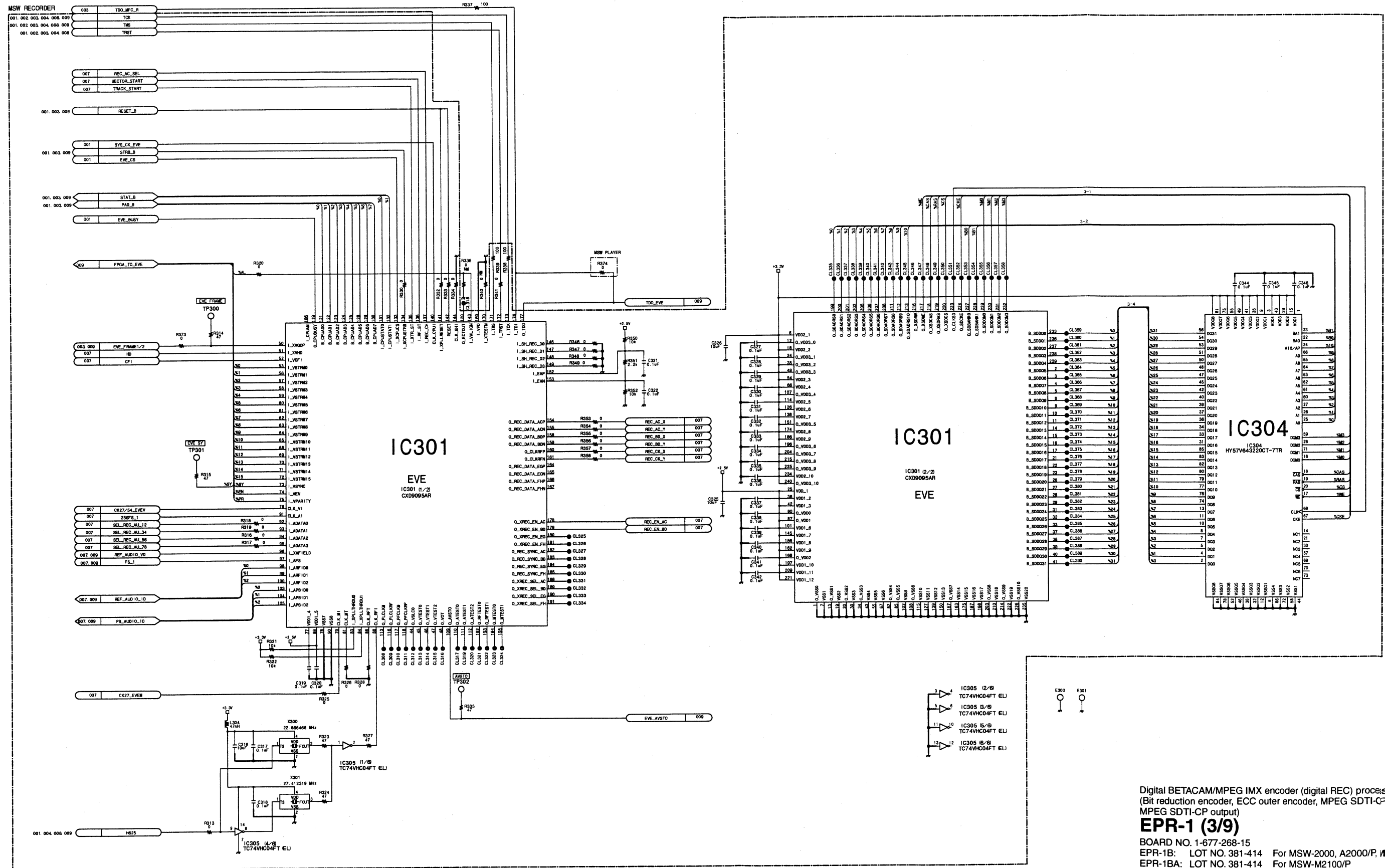
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (1/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_1



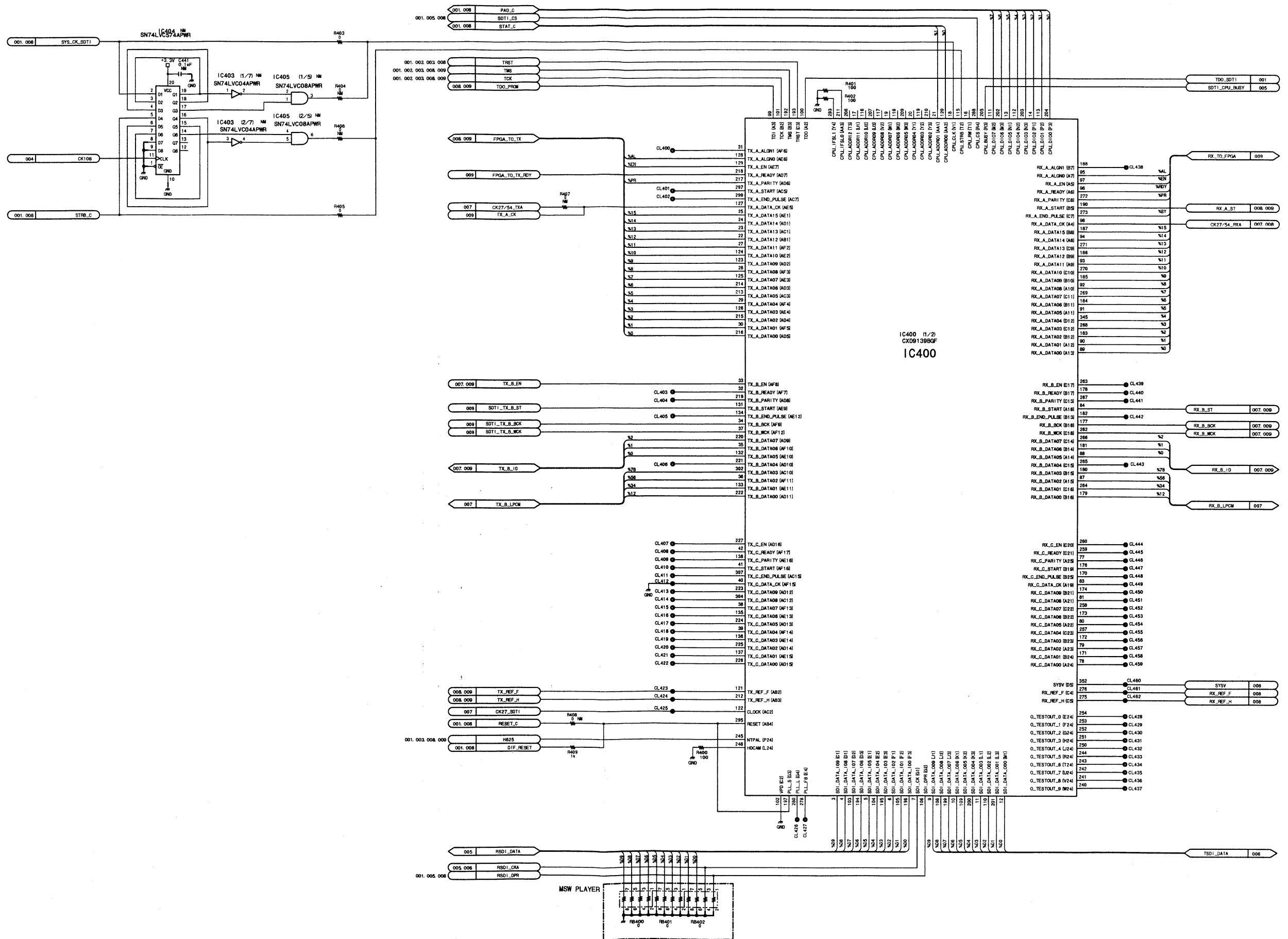


Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (2/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_2



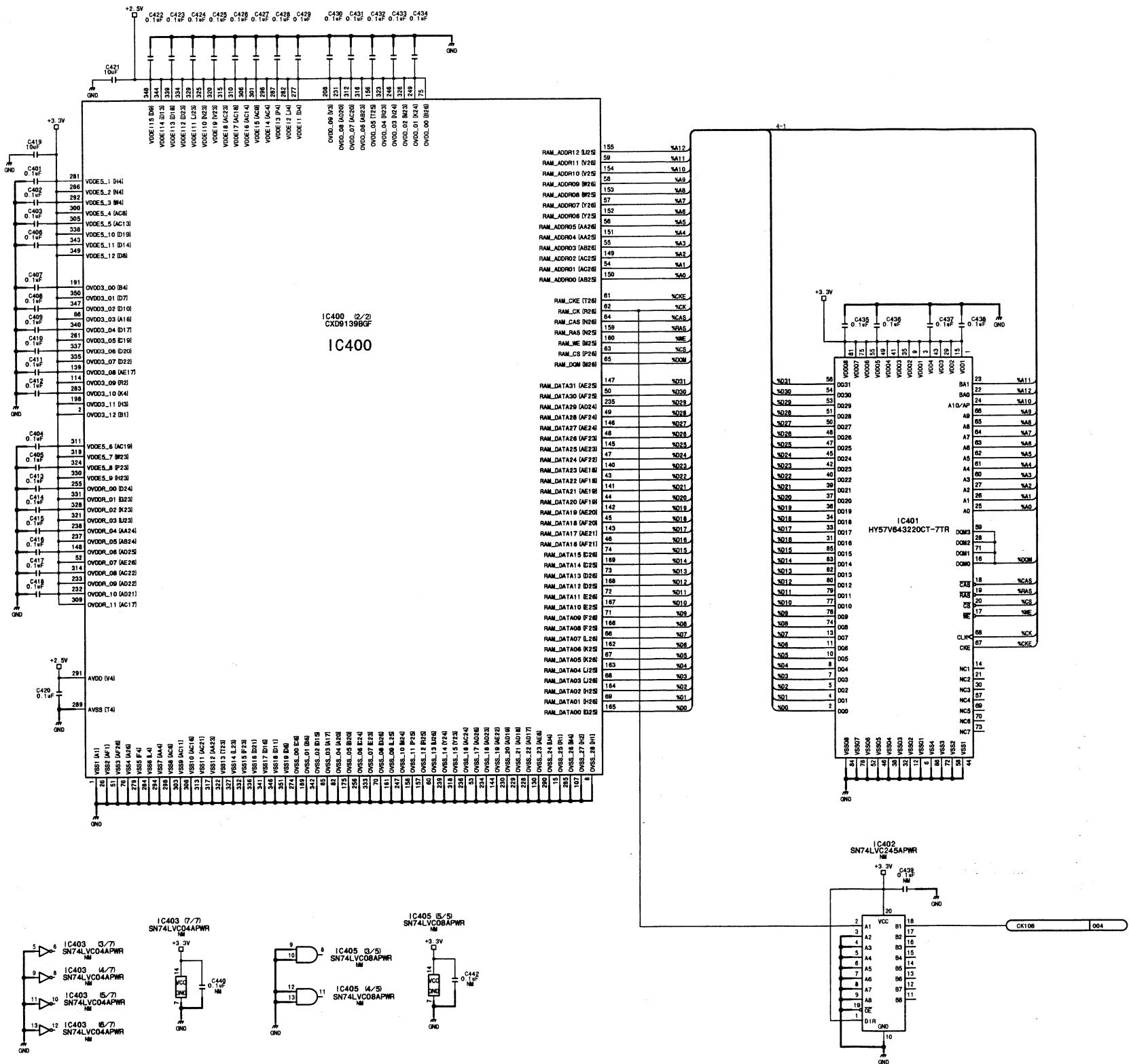


Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (3/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_3

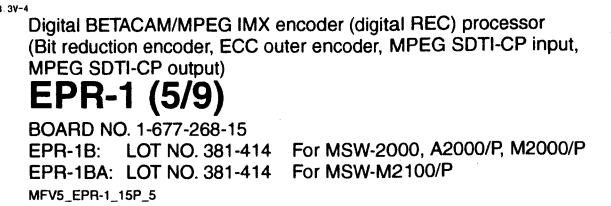


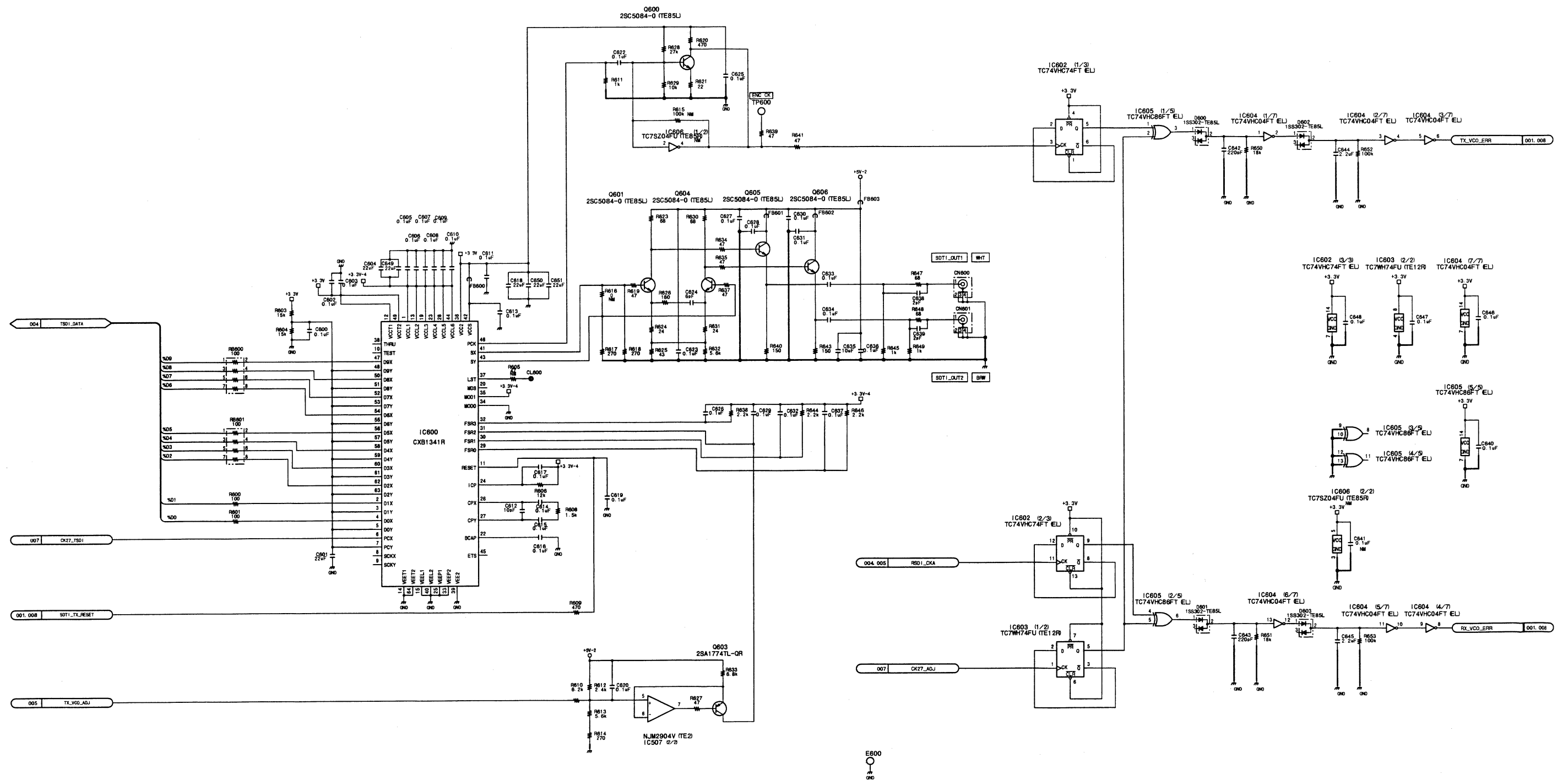
1-160 (b)

1-160 (b)

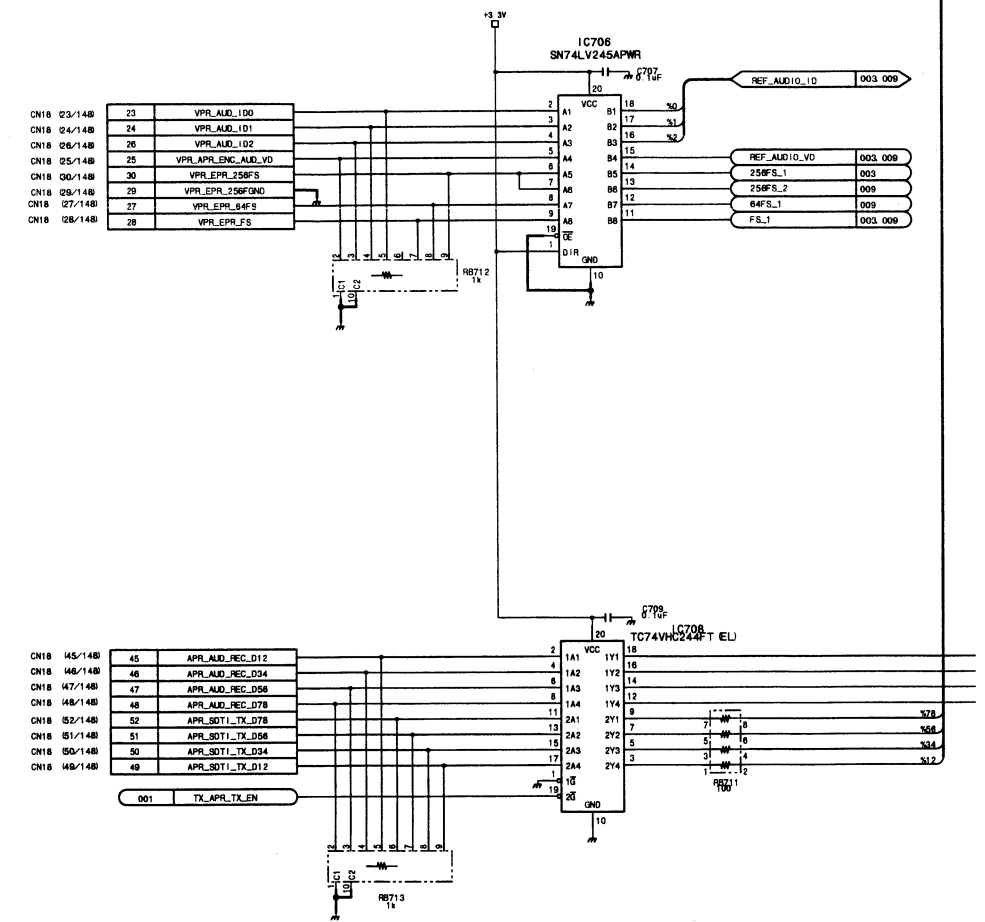


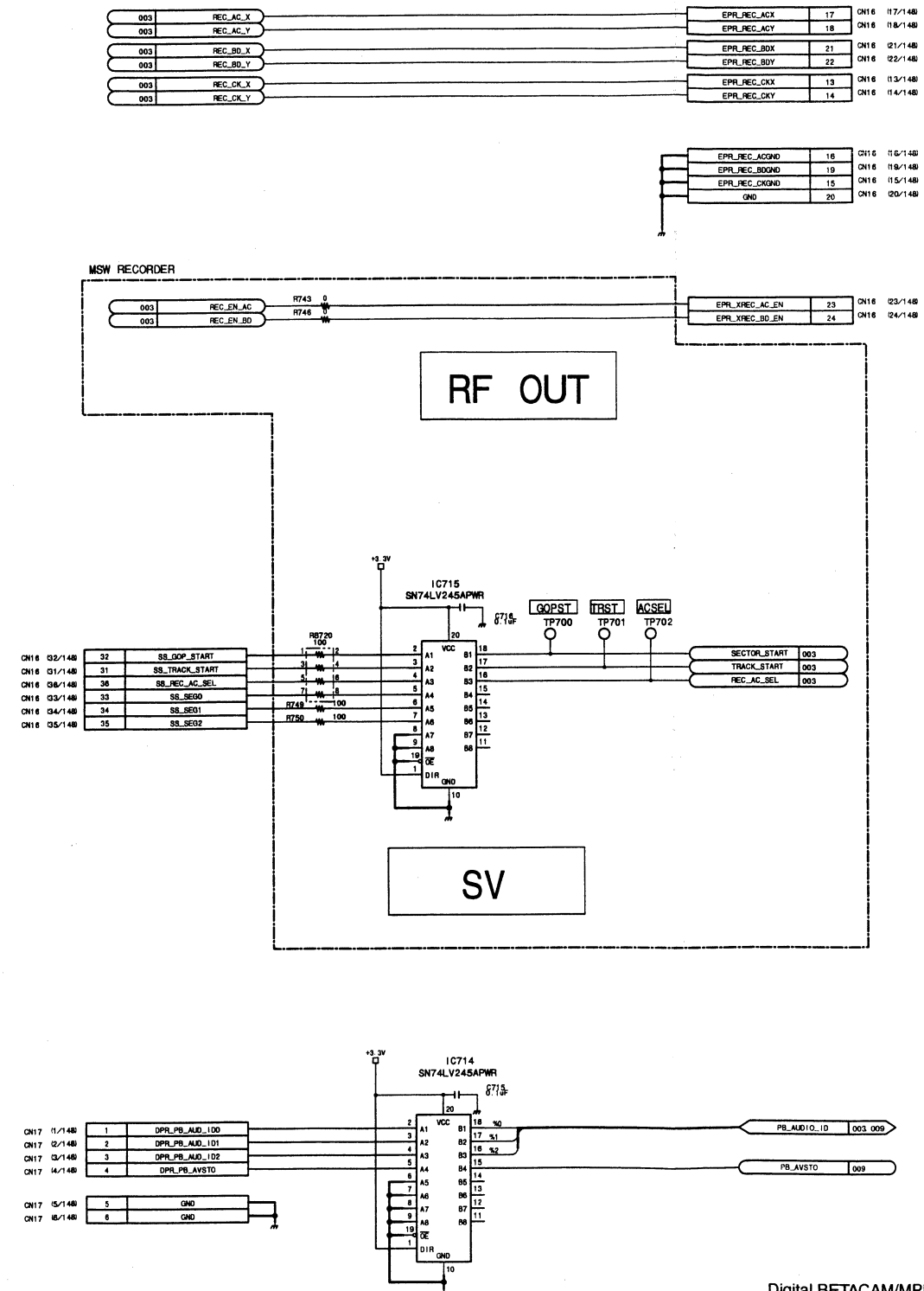
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (4/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_4





Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (6/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_6





AUD I O I/O

0N100 071/2011	71	NC
0N100 072/2011	72	NC
0N100 073/2011	73	NC
0N100 074/2011	74	NC
0N100 075/2011	75	NC
0N100 076/2011	76	NC
0N100 077/2011	77	NC
0N100 078/2011	78	NC
0N100 079/2011	79	NC
0N100 080/2011	80	NC
0N100 081/2011	81	NC
0N100 082/2011	82	NC
0N100 083/2011	83	NC
0N100 084/2011	84	NC
0N100 085/2011	85	NC
0N100 086/2011	86	NC

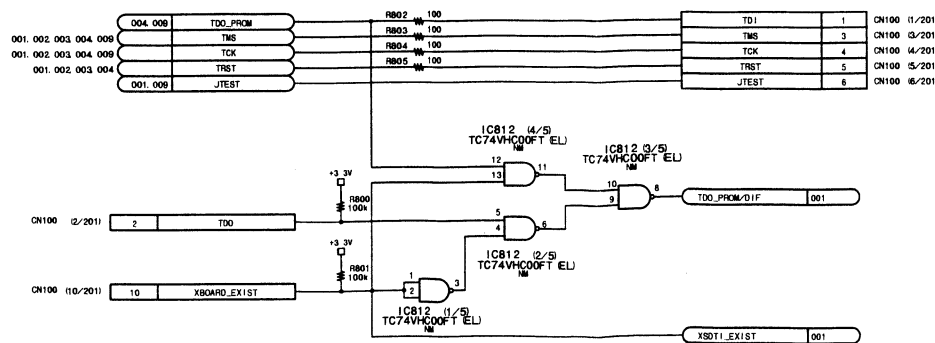
0N100 131/2011	131	NC
0N100 132/2011	132	NC
0N100 133/2011	133	NC
0N100 134/2011	134	NC
0N100 135/2011	135	NC
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0N100 137/2011	137	NC
0N100 138/2011	138	NC
0N100 139/2011	139	NC
0N100 140/2011	140	NC
0N100 141/2011	141	NC
0N100 142/2011	142	NC
0N100 143/2011	143	NC
0N100 144/2011	144	NC
0N100 145/2011	145	NC
0N100 146/2011	146	NC
0N100 176/2011	176	NC

0N100 177/2011	177	+2.5V
0N100 178/2011	178	+2.5V
0N100 179/2011	179	+2.5V
0N100 180/2011	180	+2.5V

0N100 181/2011	181	+3.3V
0N100 182/2011	182	+3.3V
0N100 183/2011	183	+3.3V
0N100 184/2011	184	+3.3V
0N100 185/2011	185	+3.3V
0N100 186/2011	186	+3.3V

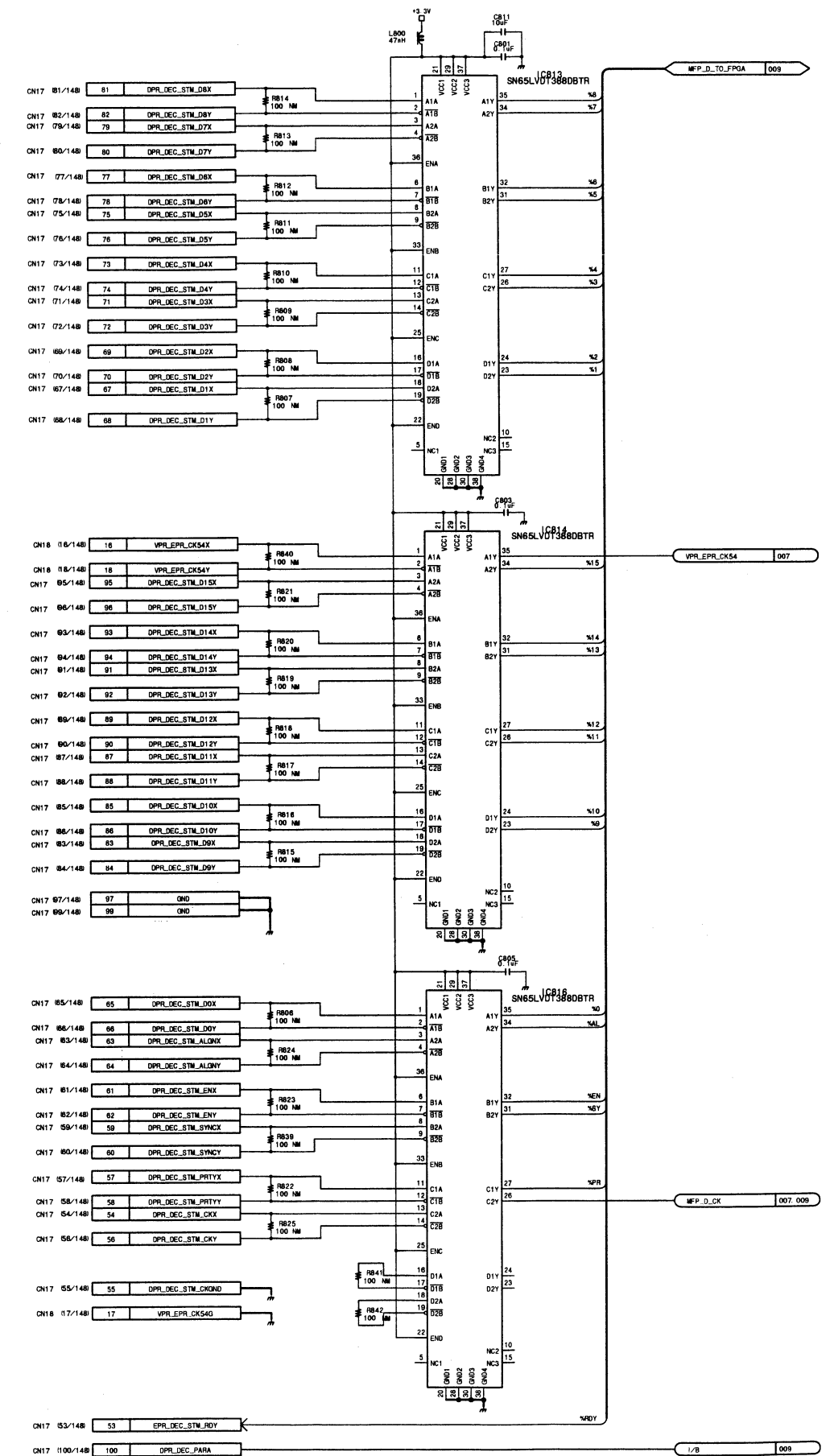
0N100 187/2011	187	+5V
0N100 188/2011	188	+5V
0N100 189/2011	189	+5V
0N100 190/2011	190	+5V
0N100 191/2011	191	+5V
0N100 192/2011	192	+5V

0N100 115/2011	15	GND
0N100 116/2011	16	GND
0N100 117/2011	17	GND
0N100 118/2011	18	GND
0N100 119/2011	19	GND
0N100 120/2011	20	GND
0N100 121/2011	21	GND
0N100 122/2011	22	GND
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0N100 186/2011	86	GND
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0N100 195/2011	95	GND
0N100 196/2011	96	GND
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0N100 198/2011	98	GND
0N100 199/2011	99	GND
0N100 200/2011	100	GND



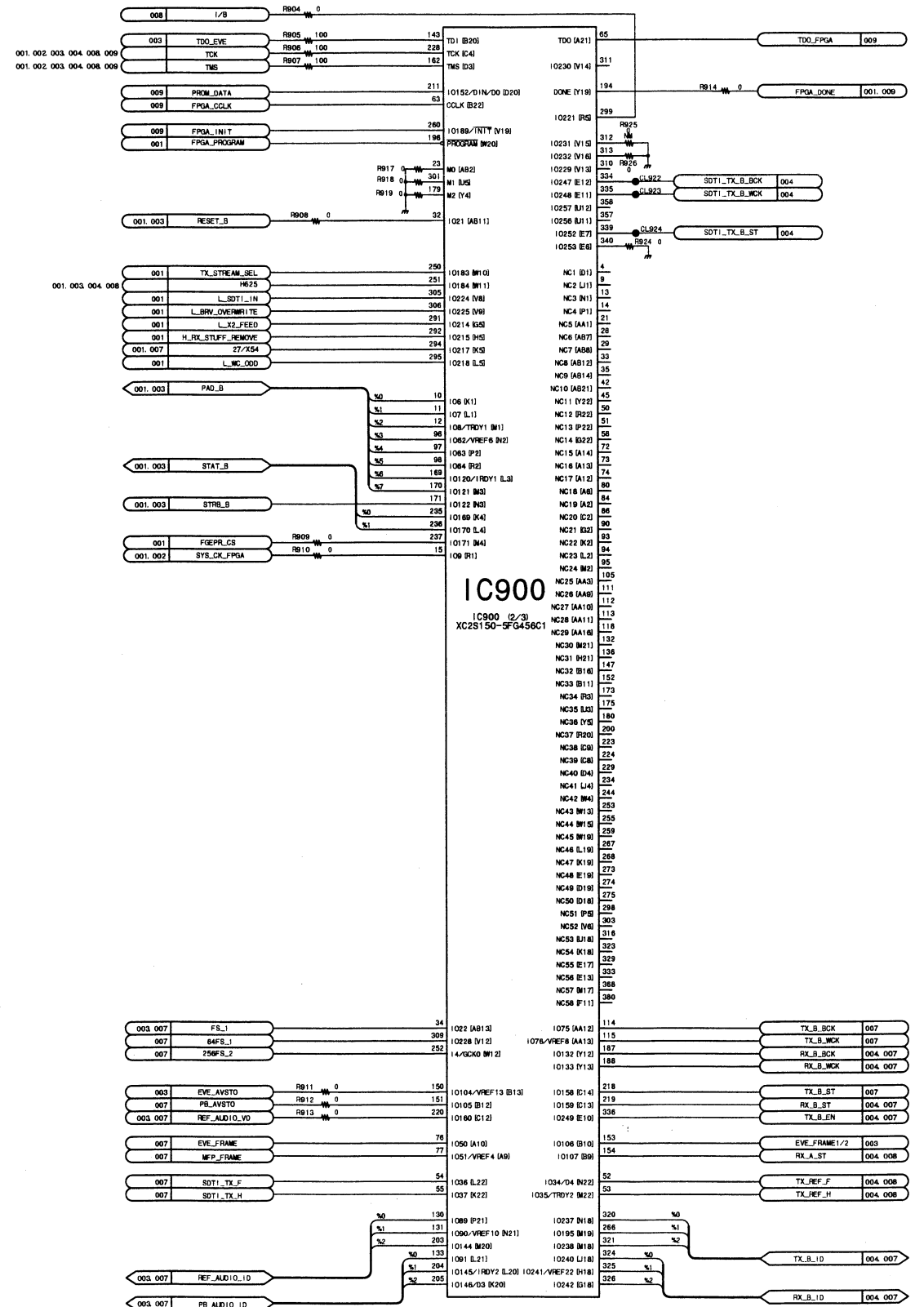
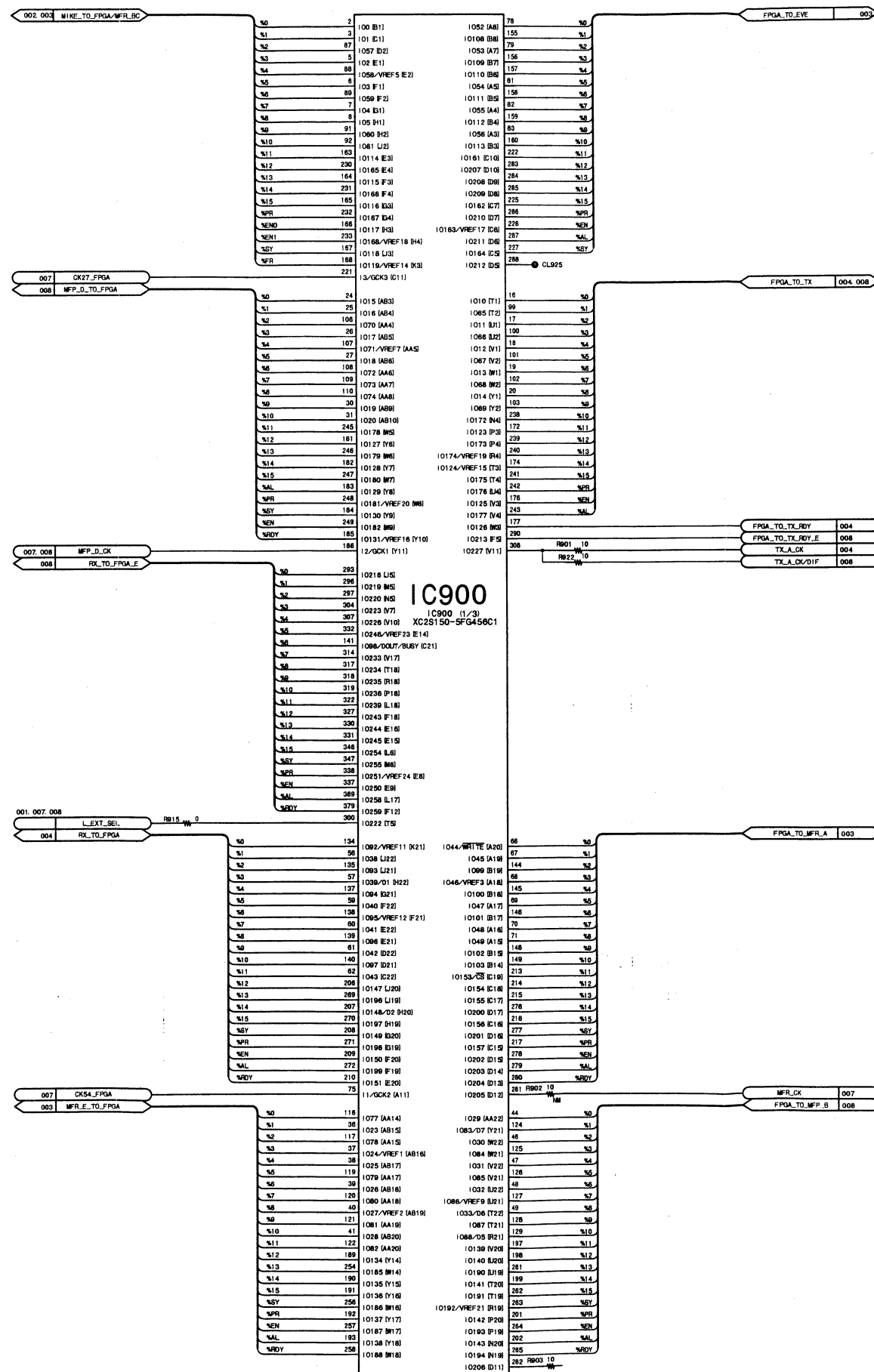
1-166 (b)

1-166 (b)



HDW series, DVW series, MSW series

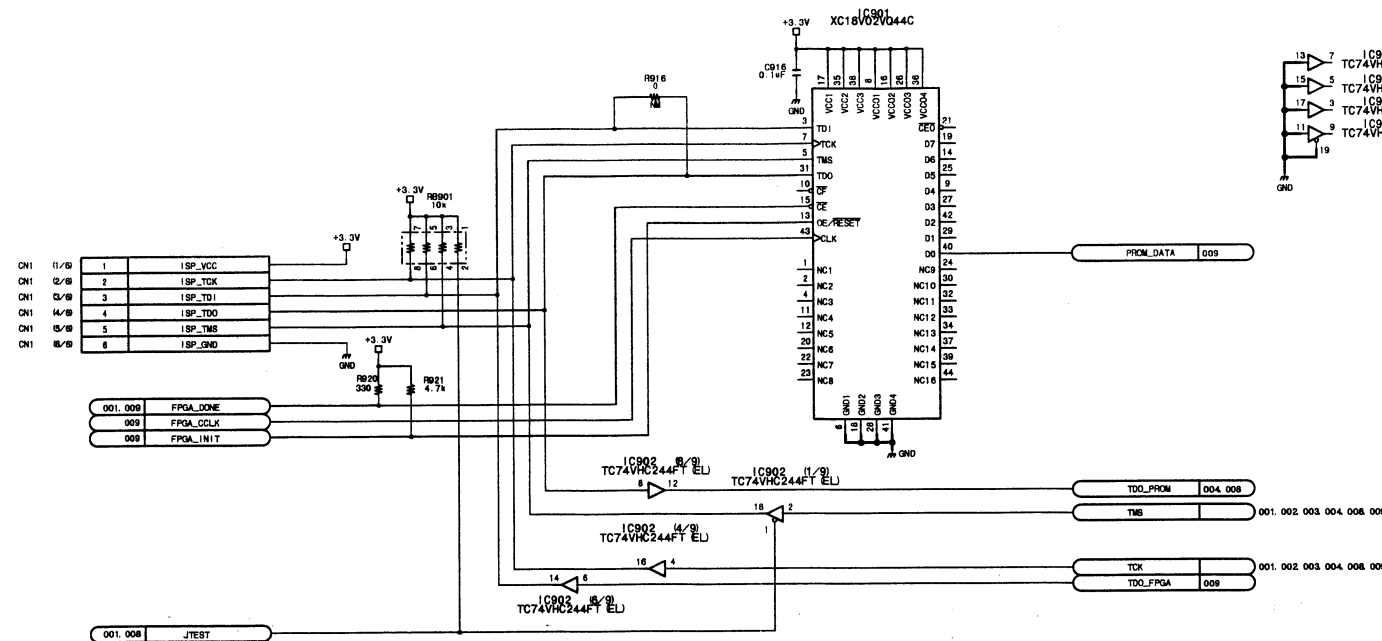
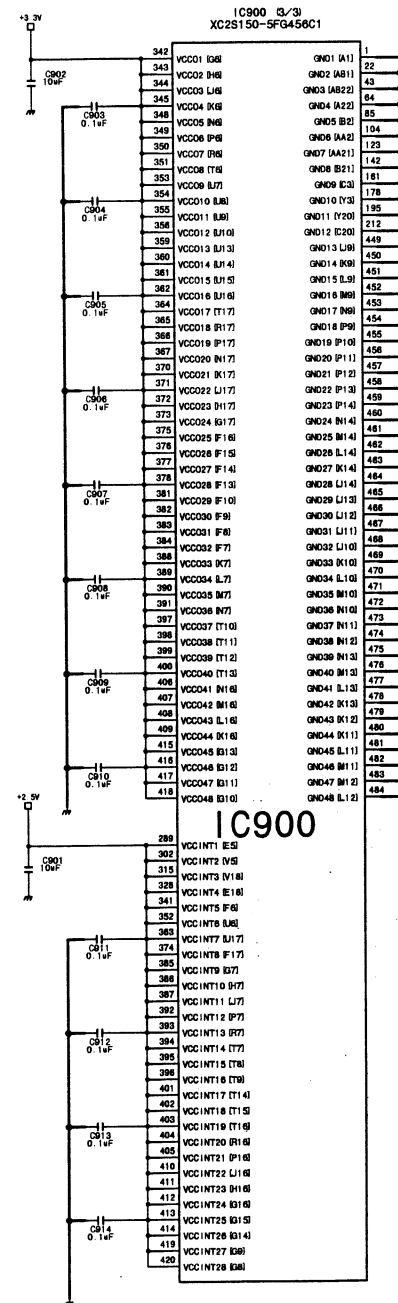
MSW EPR-1 (9/9) EPR-1 (9/9) MSW
SUFFIX: -15 SUFFIX: -15



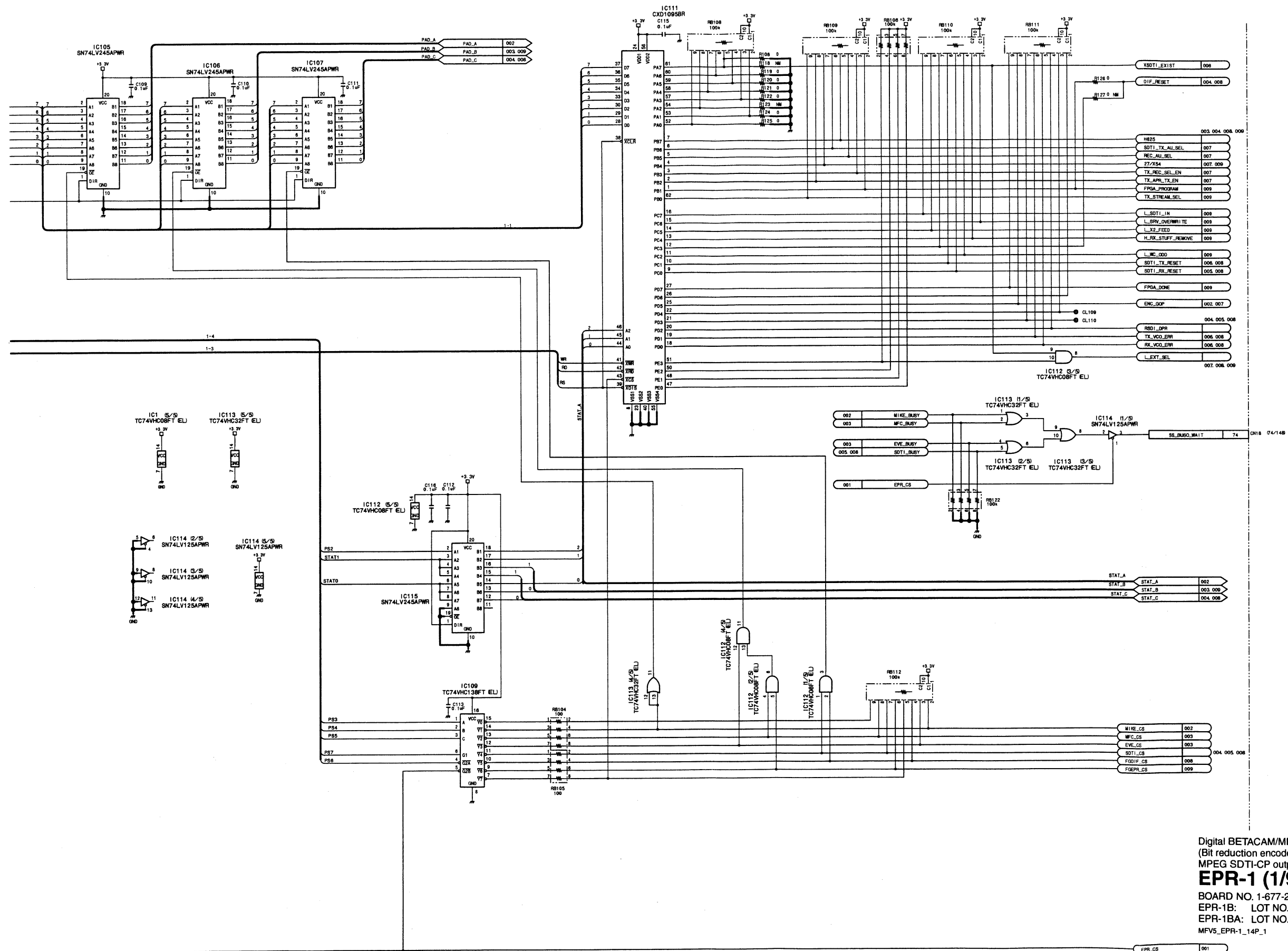
1-168 (b)

1-168 (b)

HDW series, DVW series, MSW series



Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (9/9)
BOARD NO. 1-677-268-15
EPR-1B: LOT NO. 381-414 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 381-414 For MSW-M2100/P
MFV5_EPR-1_15P_9



Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

EPR-1 (1/9)

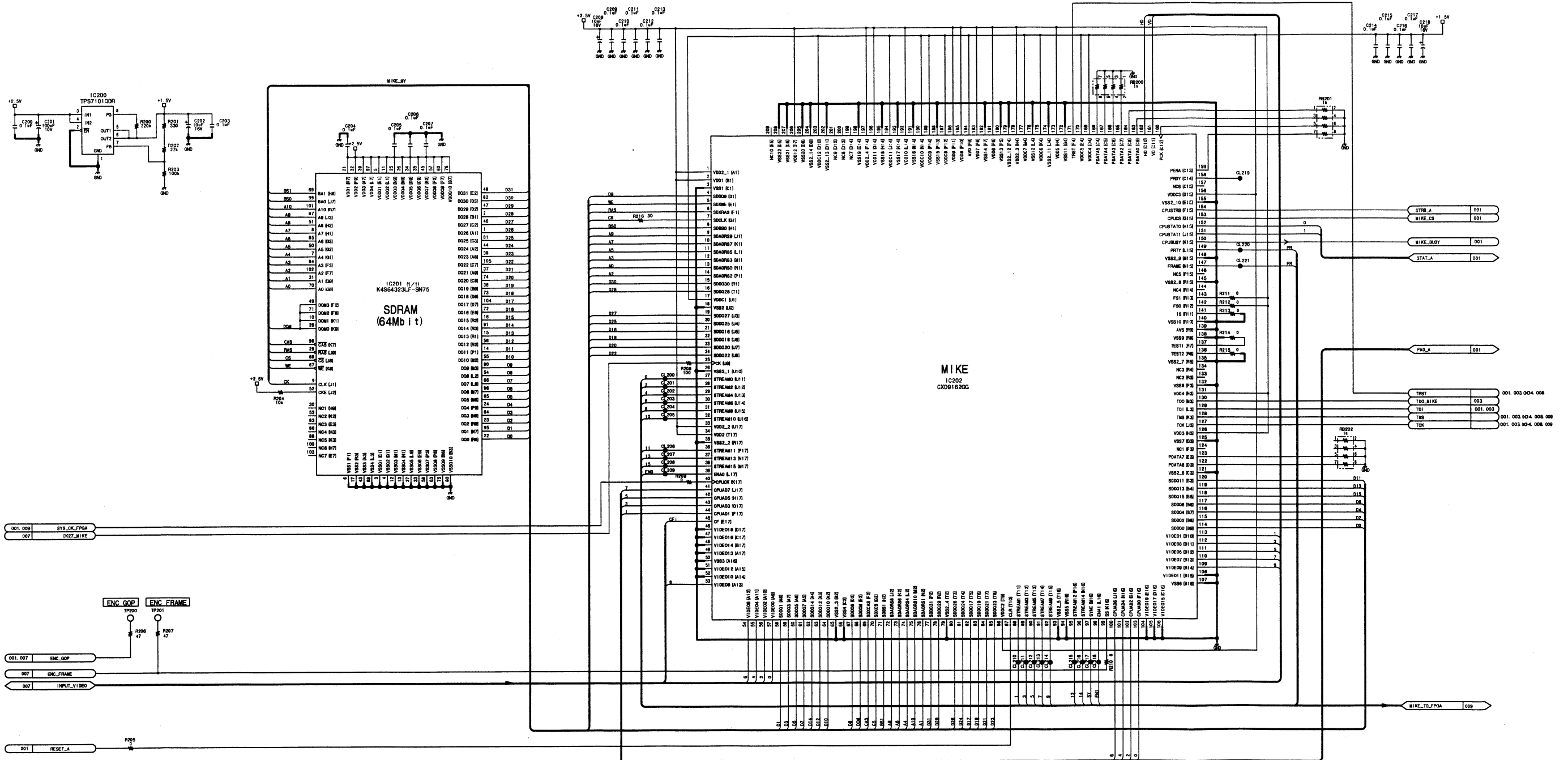
BOARD NO. 1-677-268-14

EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P

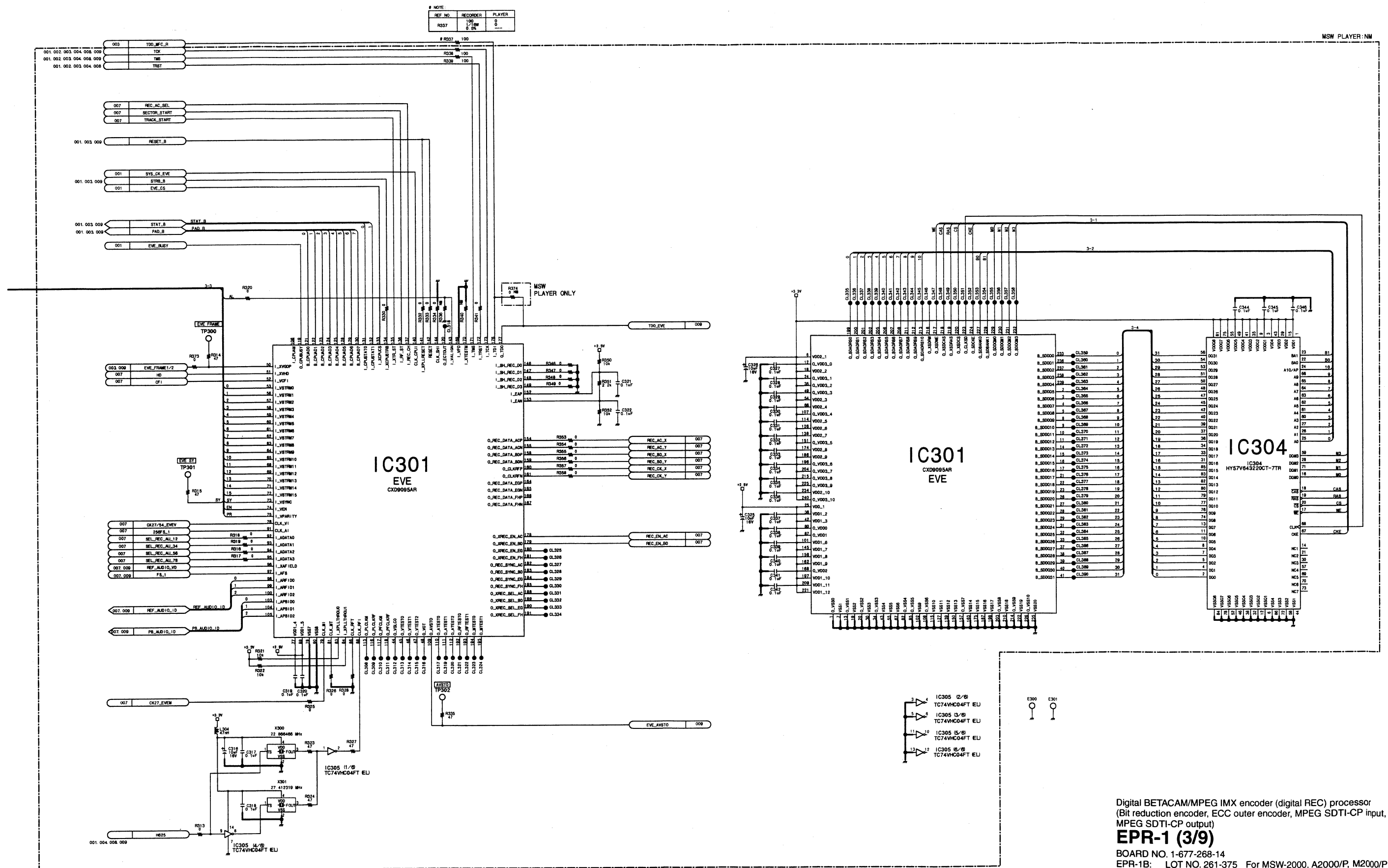
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P

MFV5_EPR-1_14P_1

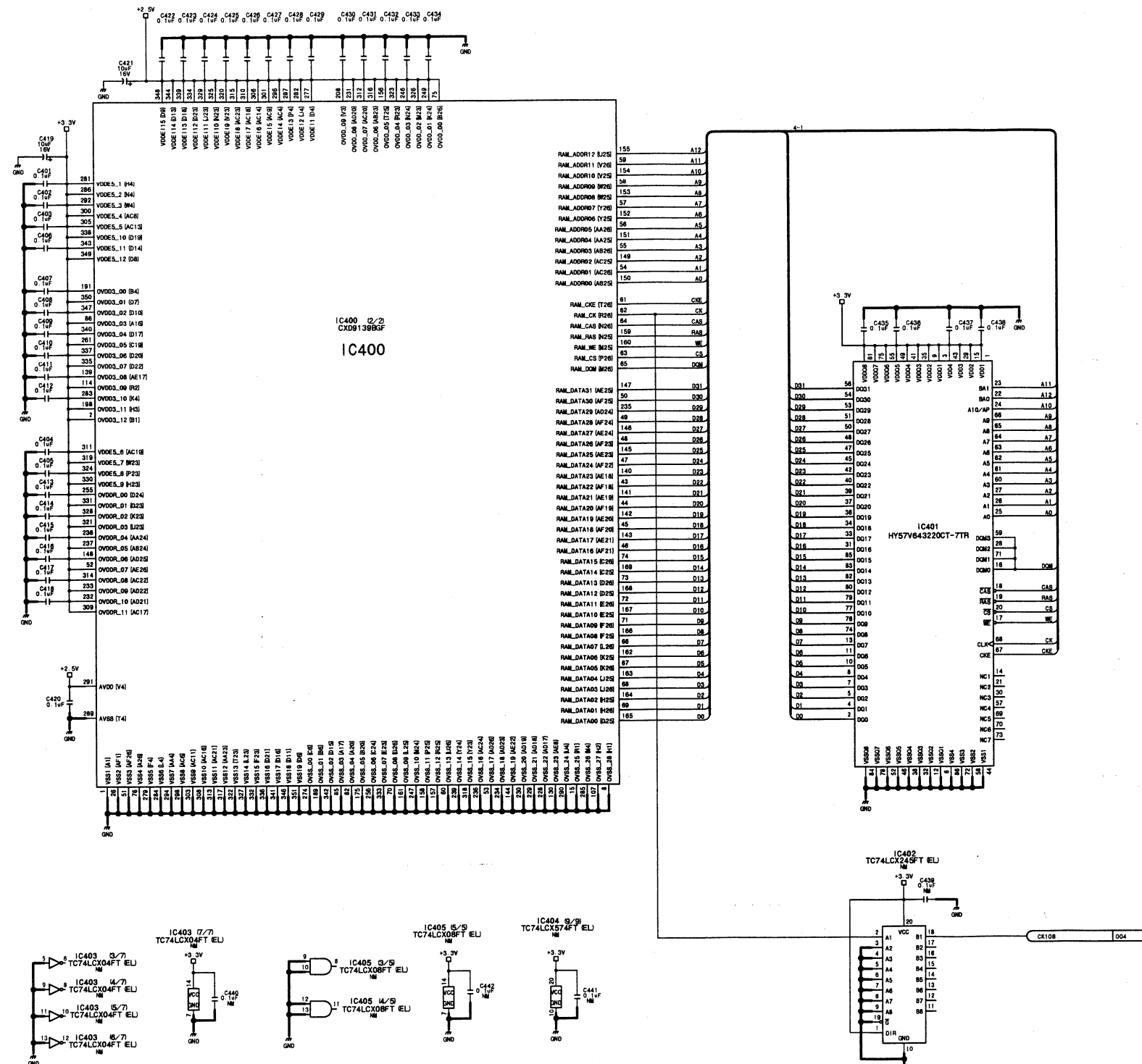




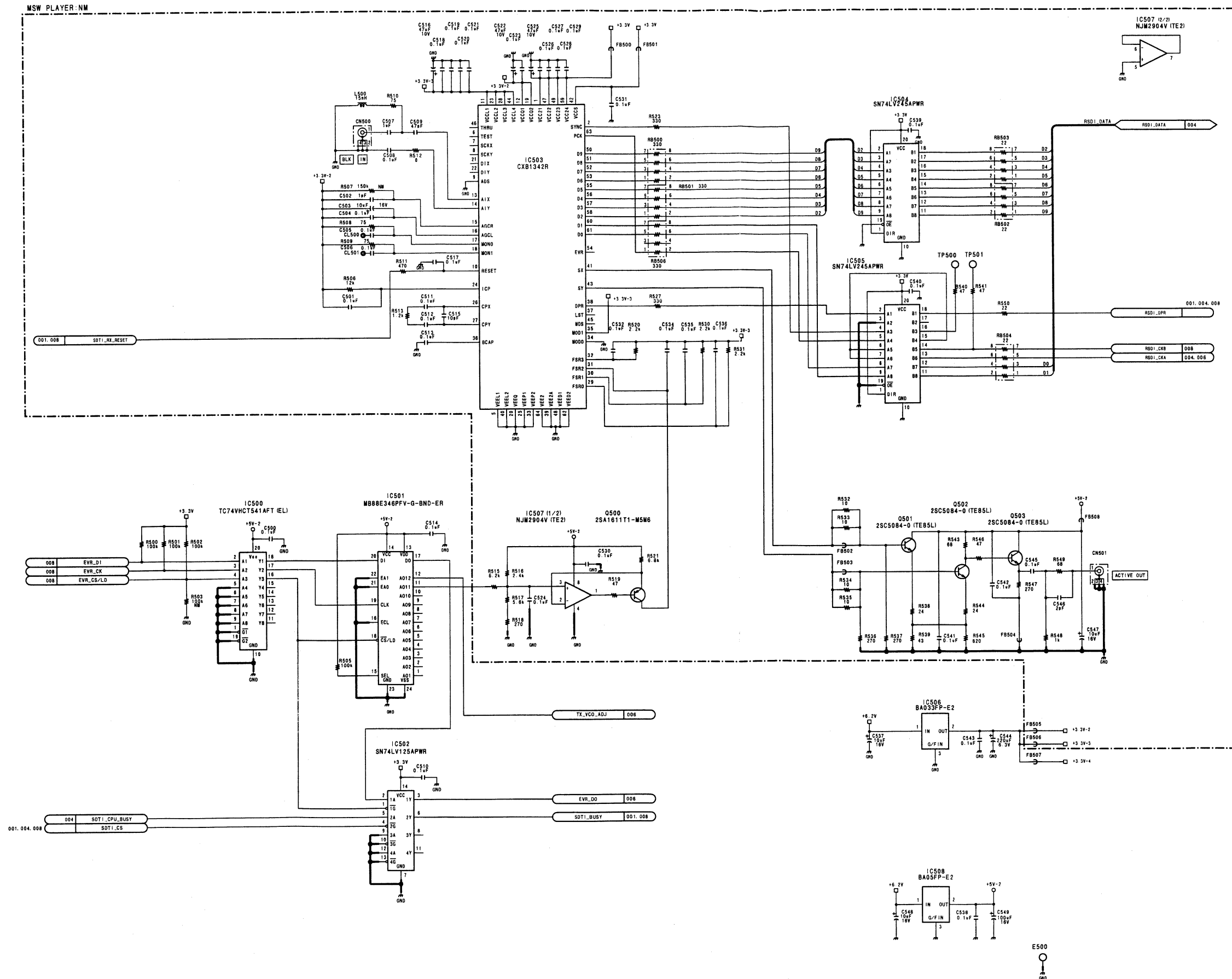
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (2/9)
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_2



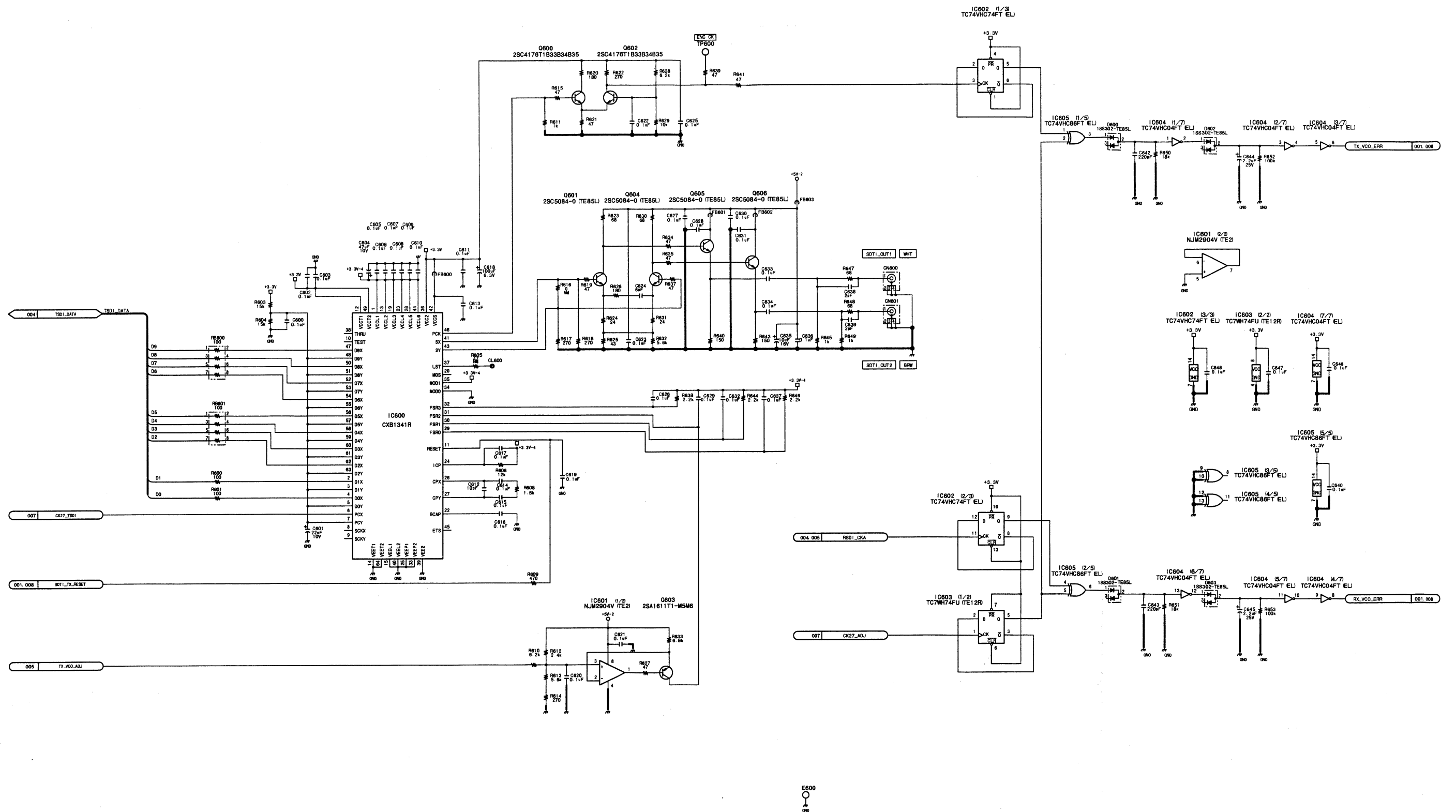
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (3/9)
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_3



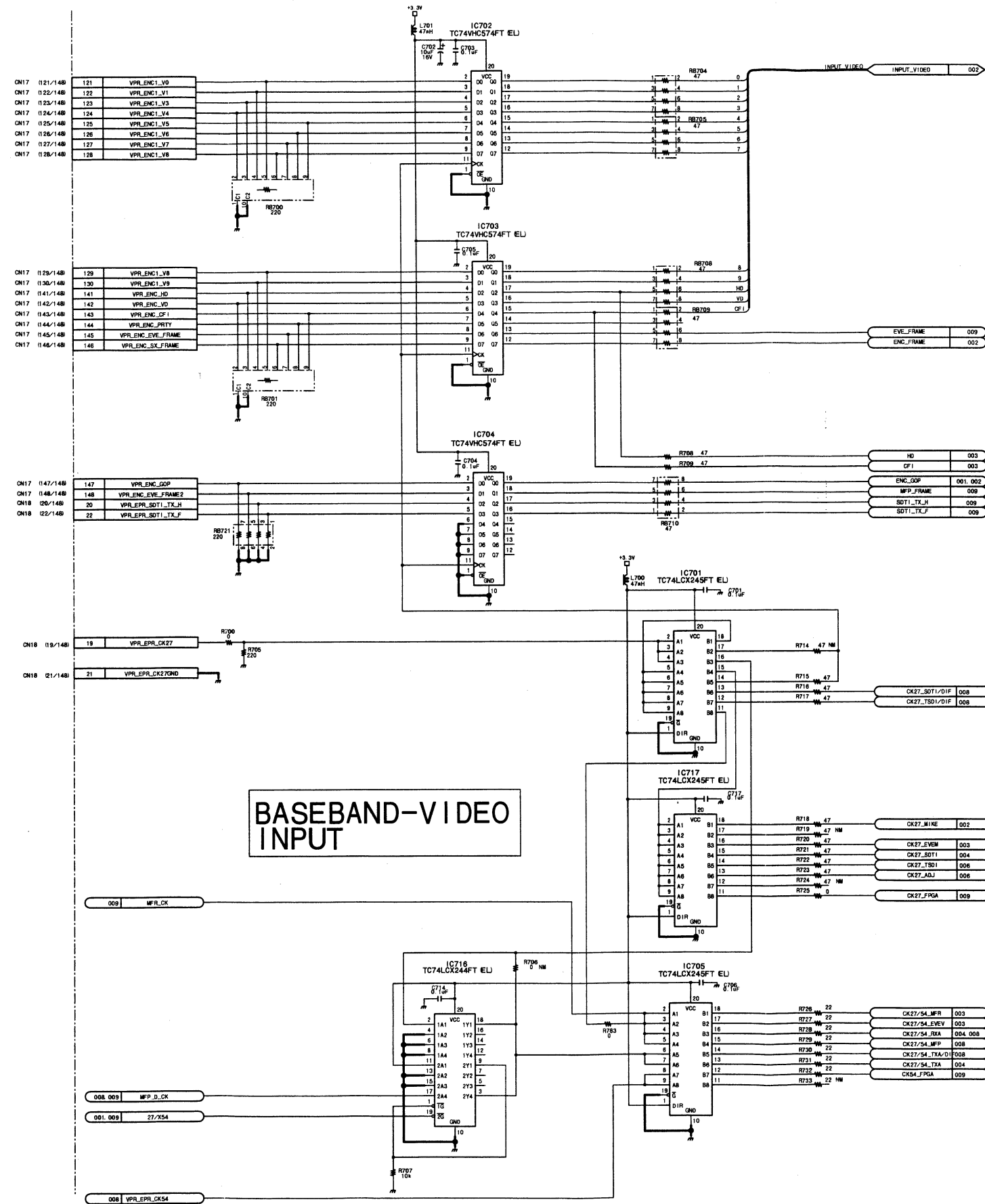
Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (4/9)
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_4



Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (5/9)
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_5

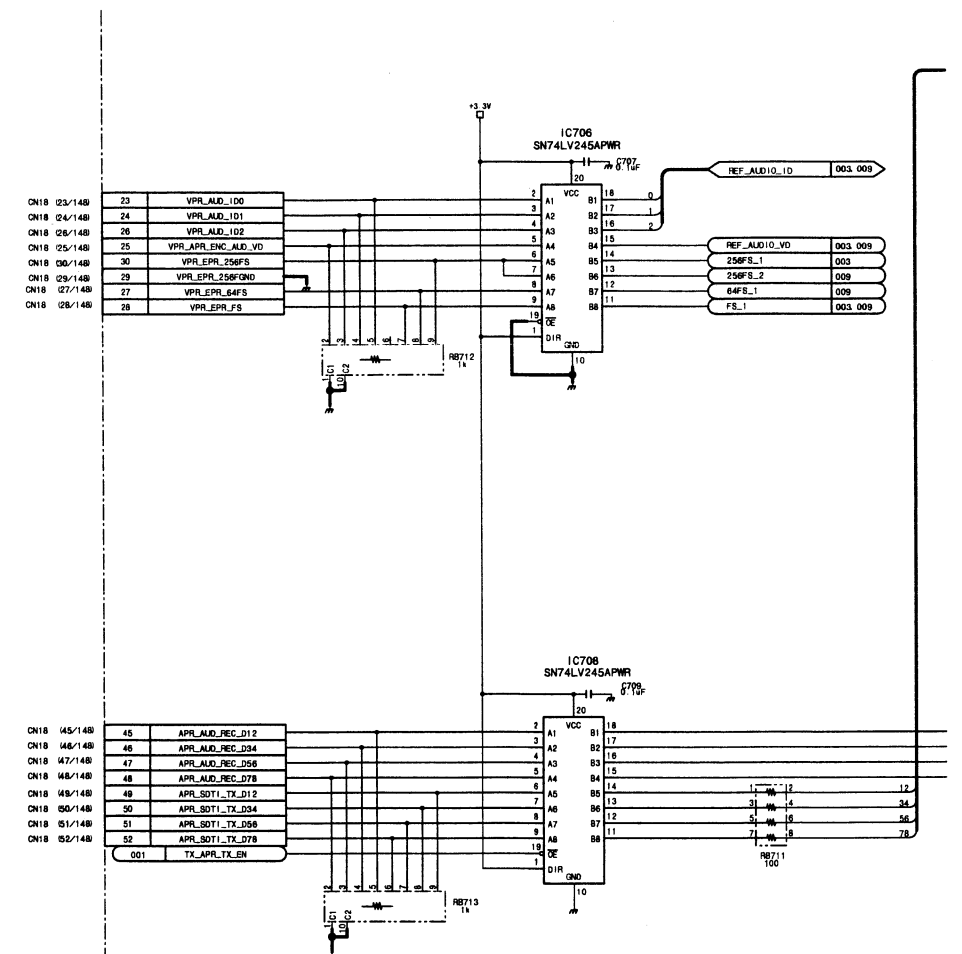


Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)
EPR-1 (6/9)
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_6

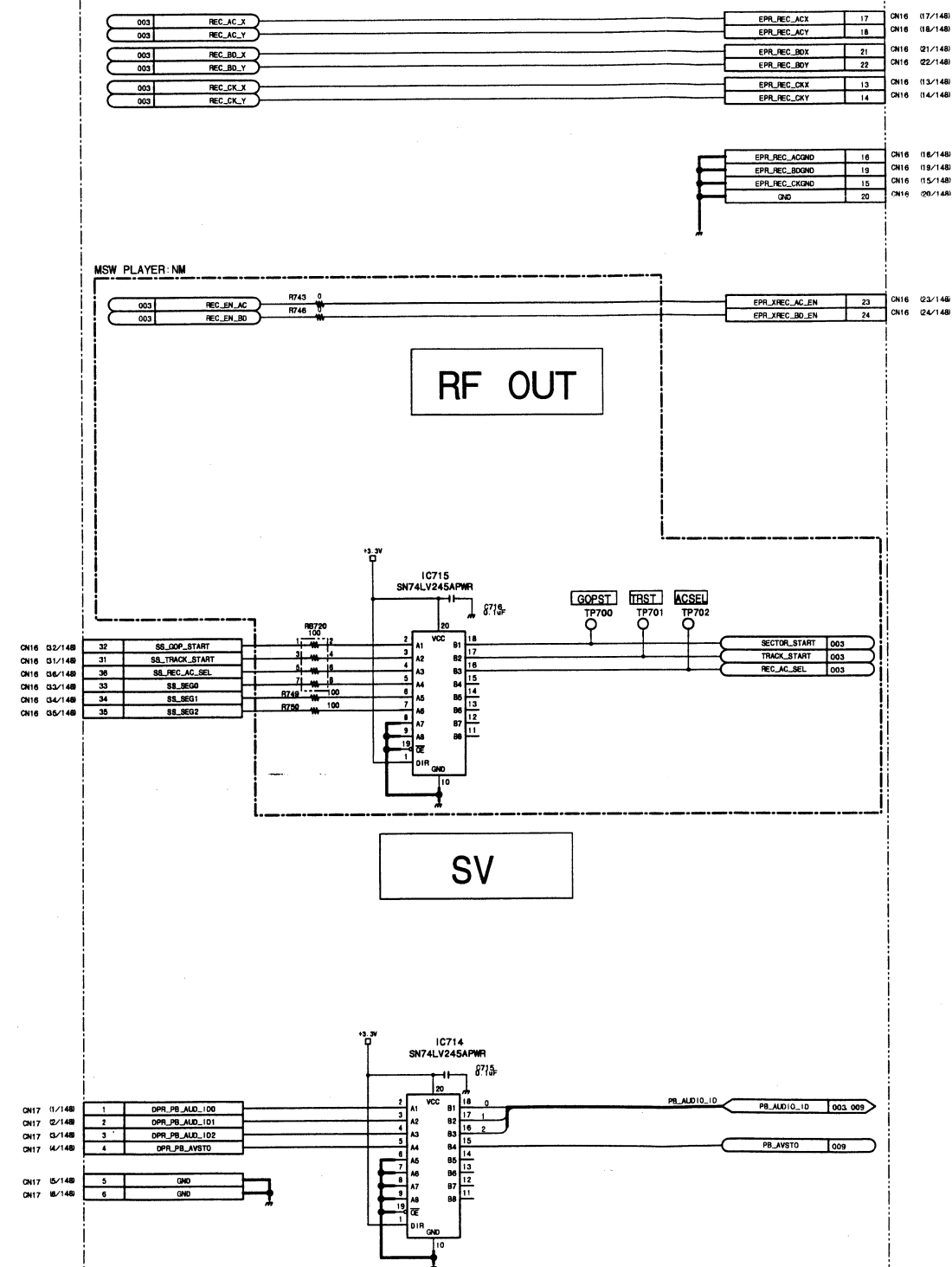


1-164 (a)

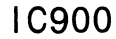
1-164 (a)

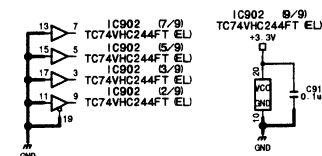
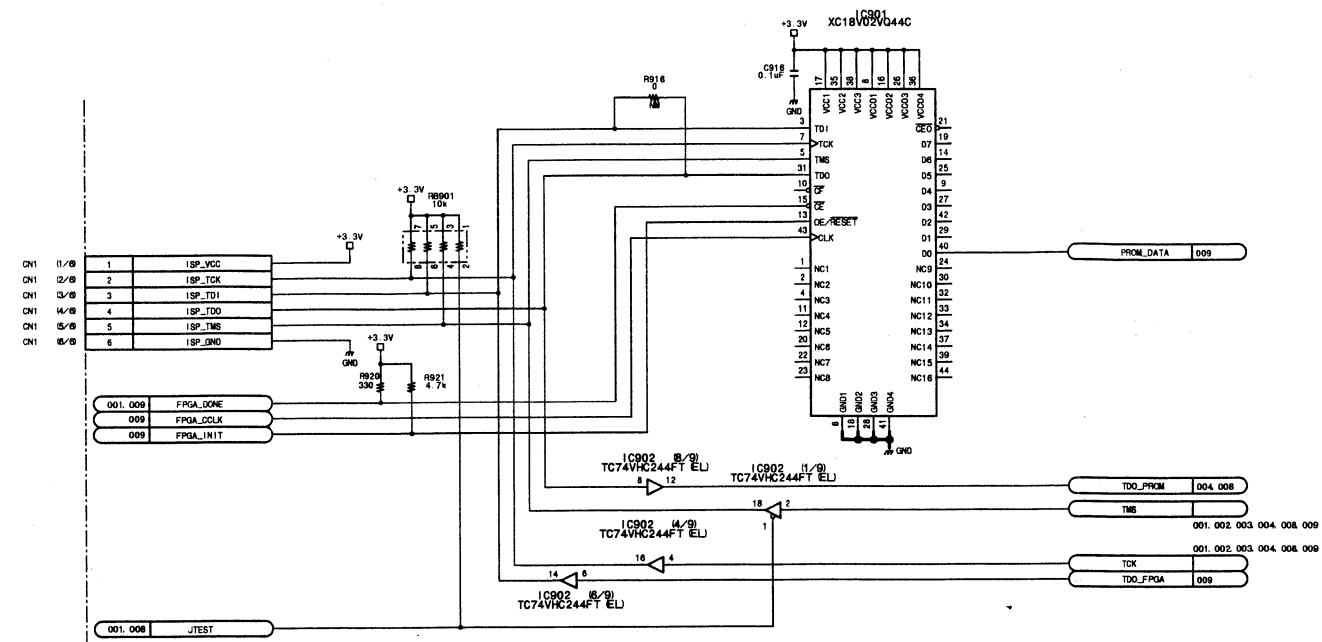


EPR-1 (7/9) MSW
SUFFIX: -14



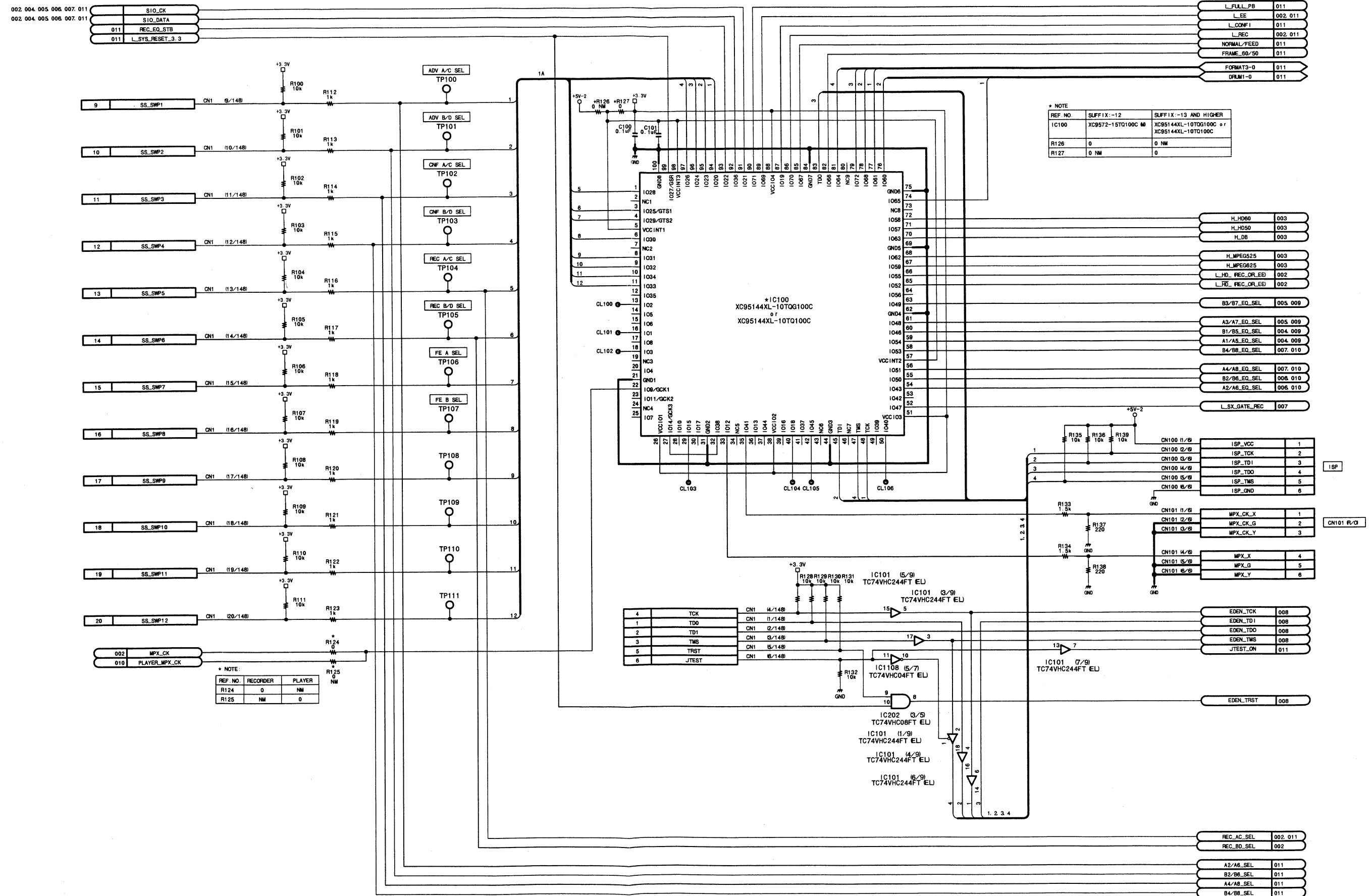
BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P.7

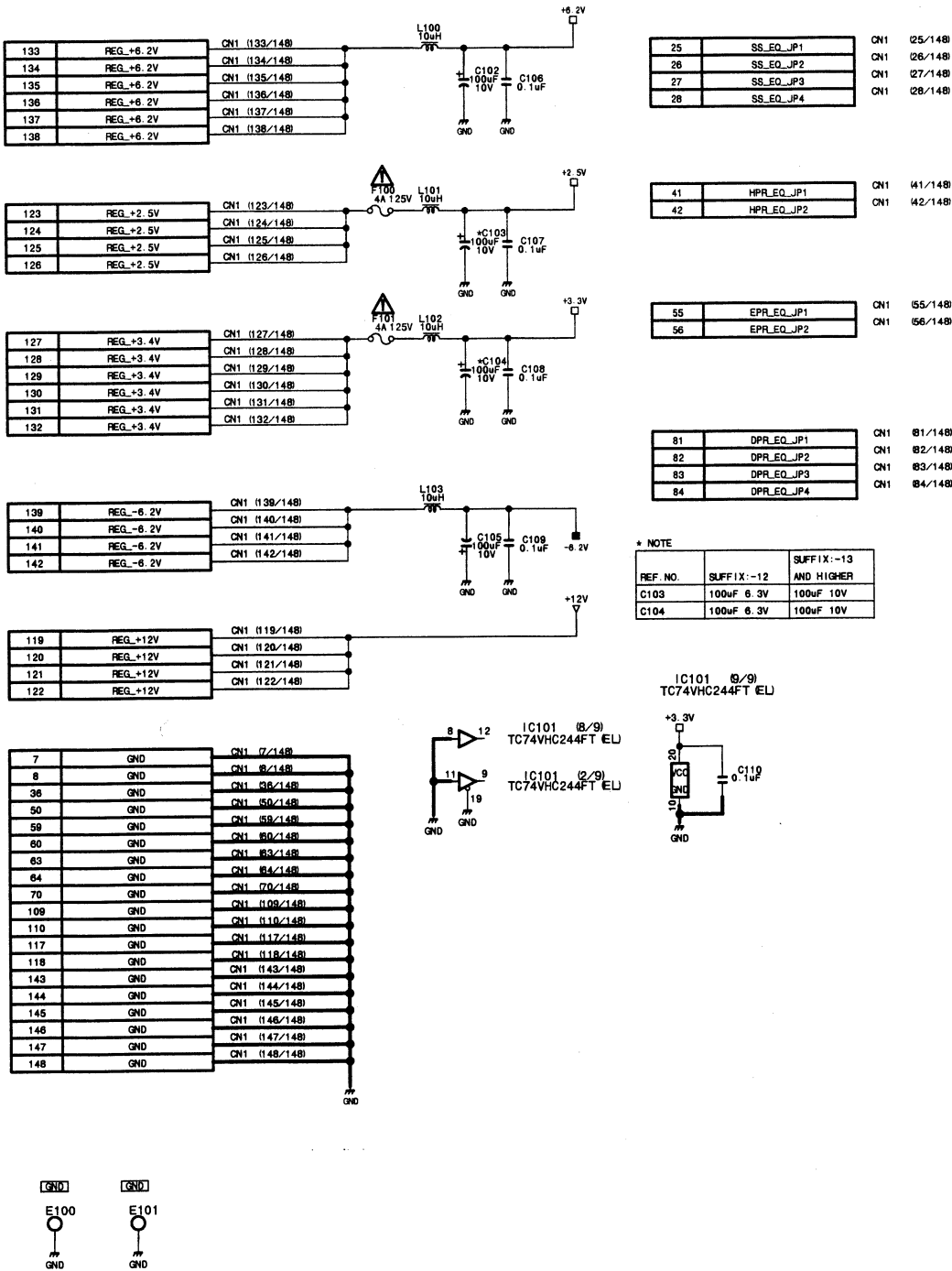




Digital BETACAM/MPEG IMX encoder (digital REC) processor
(Bit reduction encoder, ECC outer encoder, MPEG SDTI-CP input,
MPEG SDTI-CP output)

BOARD NO. 1-677-268-14
EPR-1B: LOT NO. 261-375 For MSW-2000, A2000/P, M2000/P
EPR-1BA: LOT NO. 261-375 For MSW-M2100/P
MFV5_EPR-1_14P_9



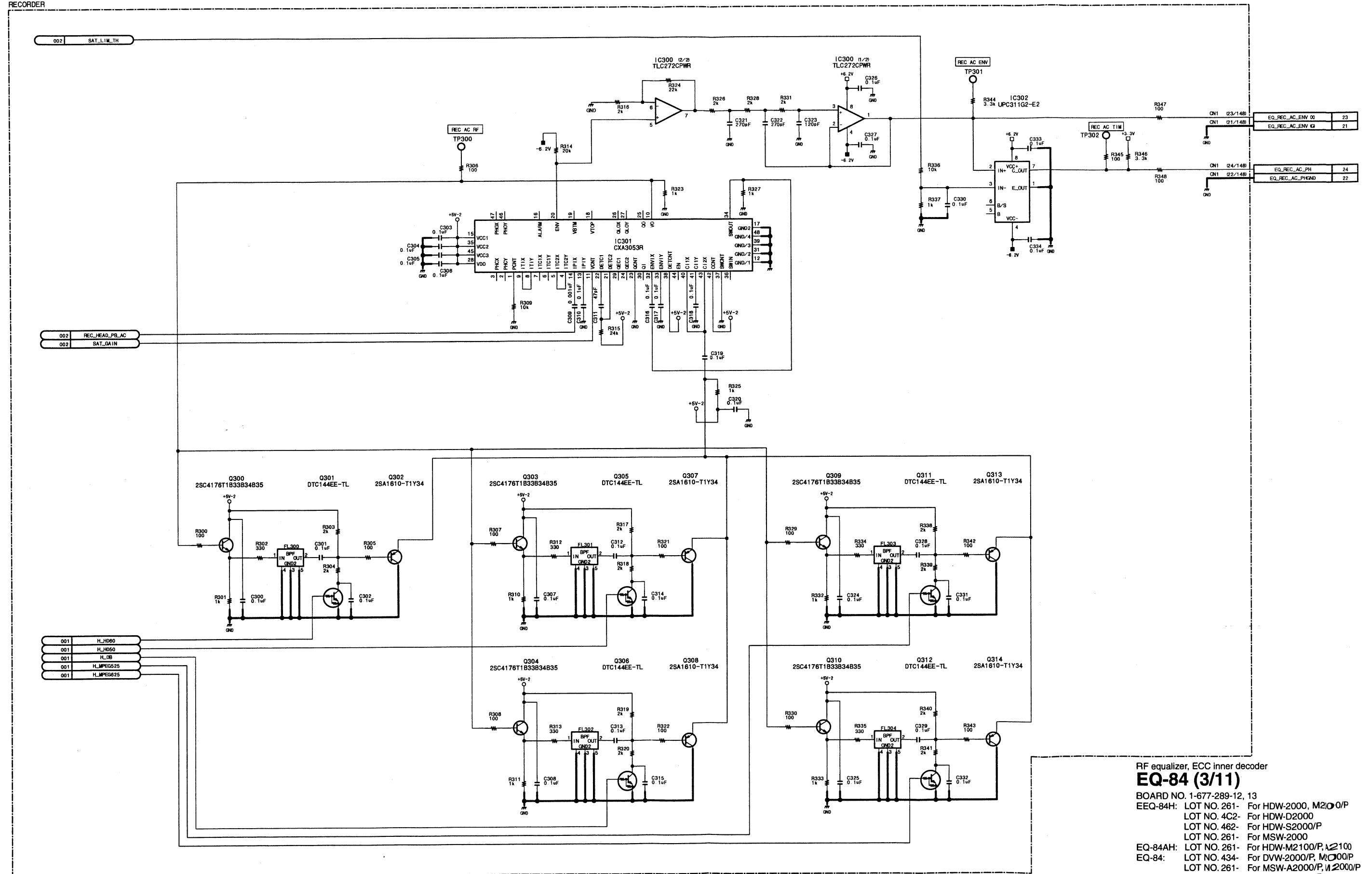


RF equalizer, ECC inner decoder
EQ-84 (1/11)

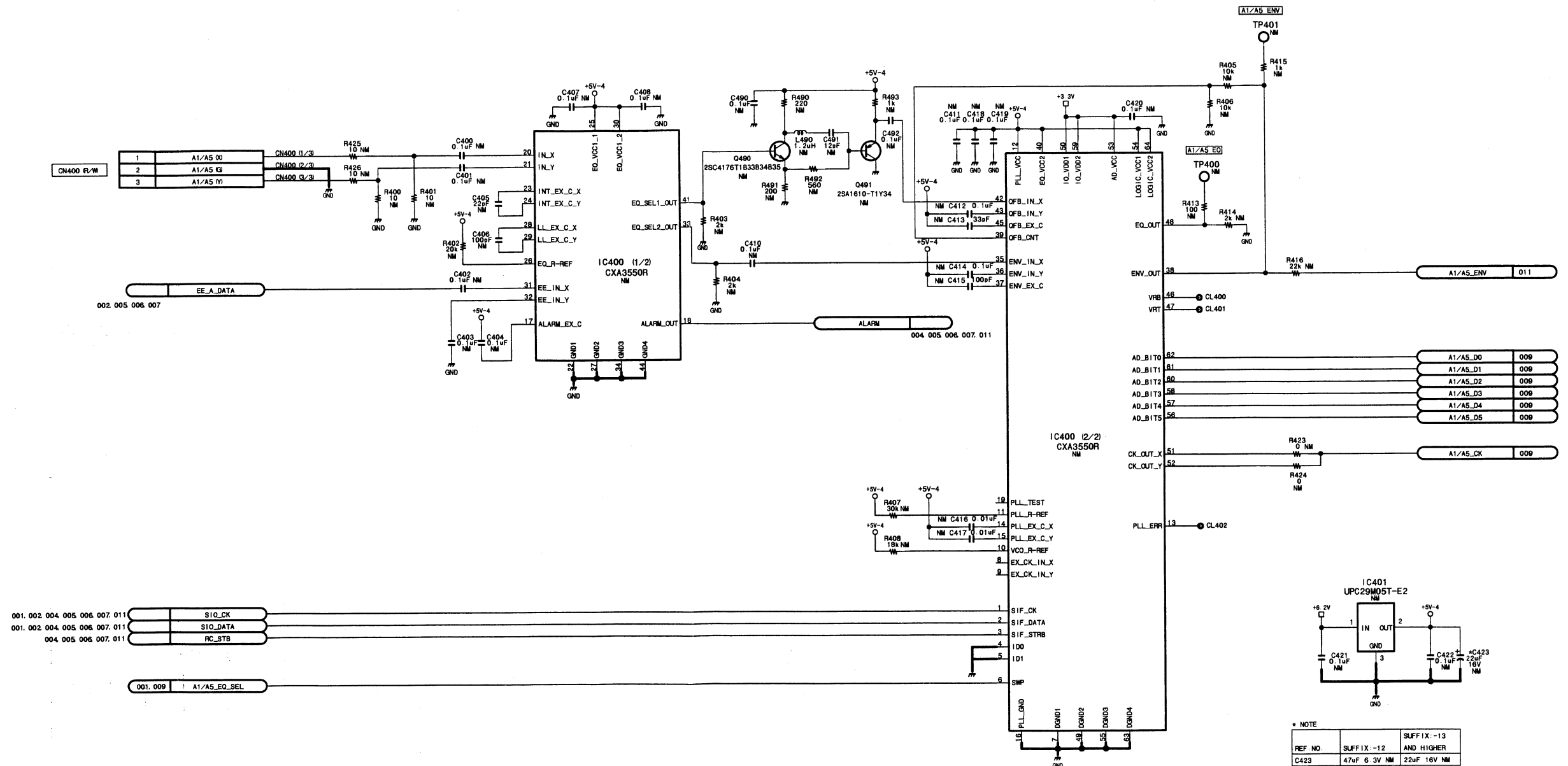
BOARD NO. 1-677-289-12, 13
EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 261- For MSW-2000
EQ-84AH: LOT NO. 261- For HDW-M2100/P, M2100/P
EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
EQ-84A: LOT NO. 261- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P



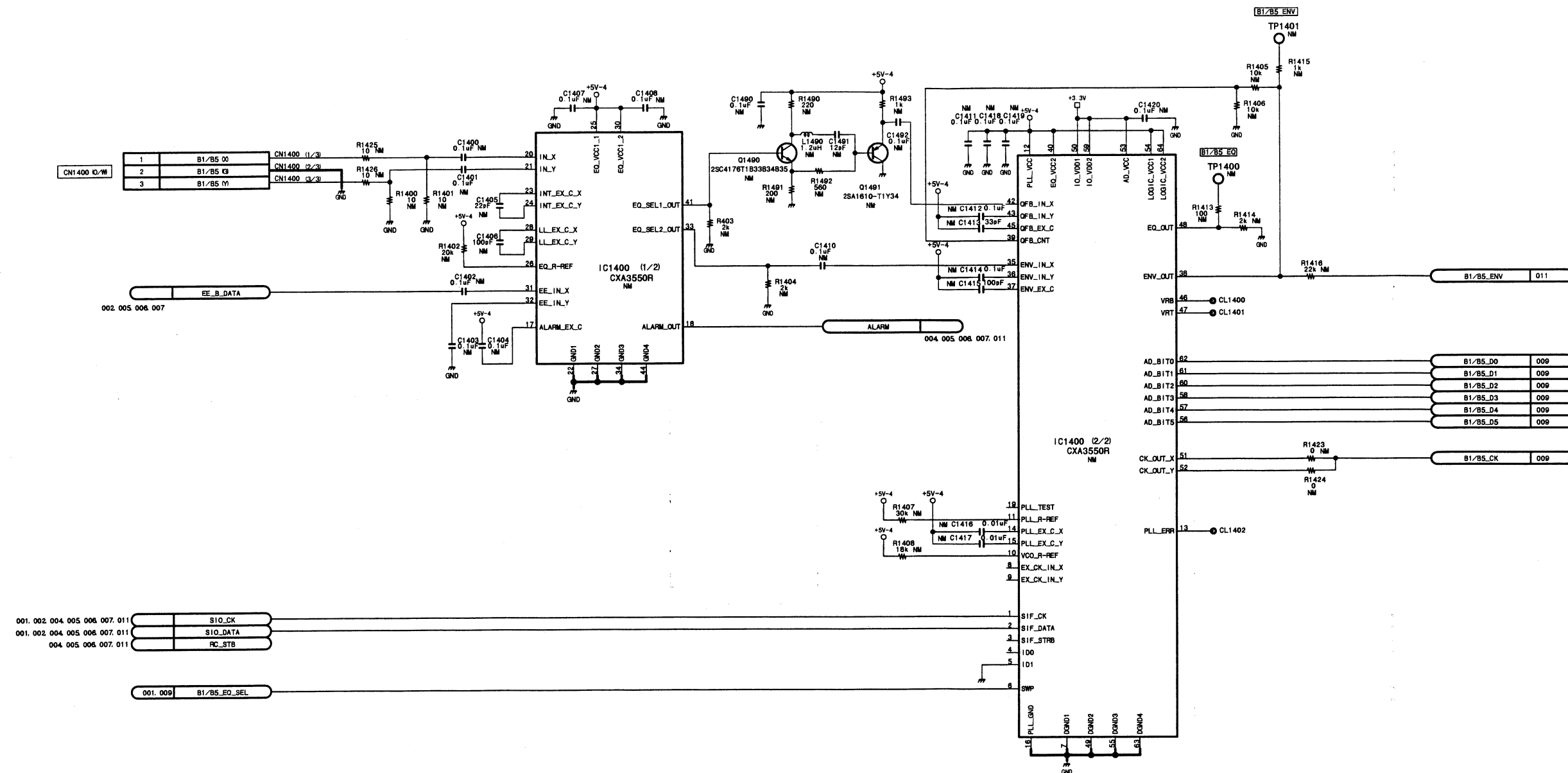
RECORDER



400



1400



RF equalizer, ECC inner decoder

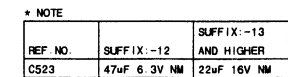
EQ-84 (4/11)

BOARD NO. 1-677-289-12, 13

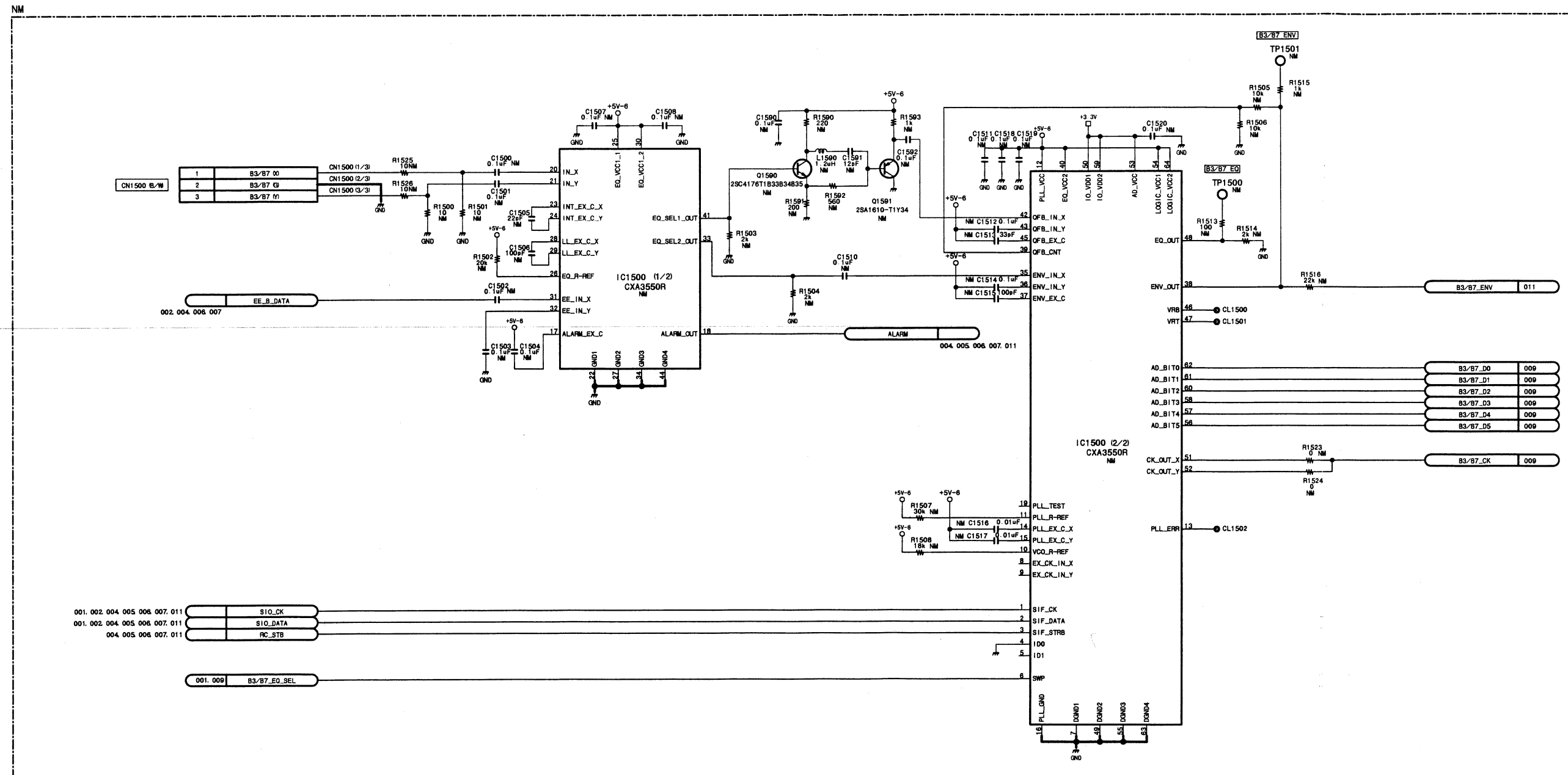
EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
 LOT NO. 4C2- For HDW-D2000
 LOT NO. 462- For HDW-S2000/P
 LOT NO. 261- For MSW-2000

EQ-84AH: LOT NO. 261- For HDW-M2100/P, A2100
 EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
 LOT NO. 261- For MSW-A2000/P, M2000/P
 LOT NO. 491- For MSW-M2000E/P

EQ-84A: LOT NO. 261- For MSW-M2100/P
 LOT NO. 491- For MSW-M2100E/P



1500

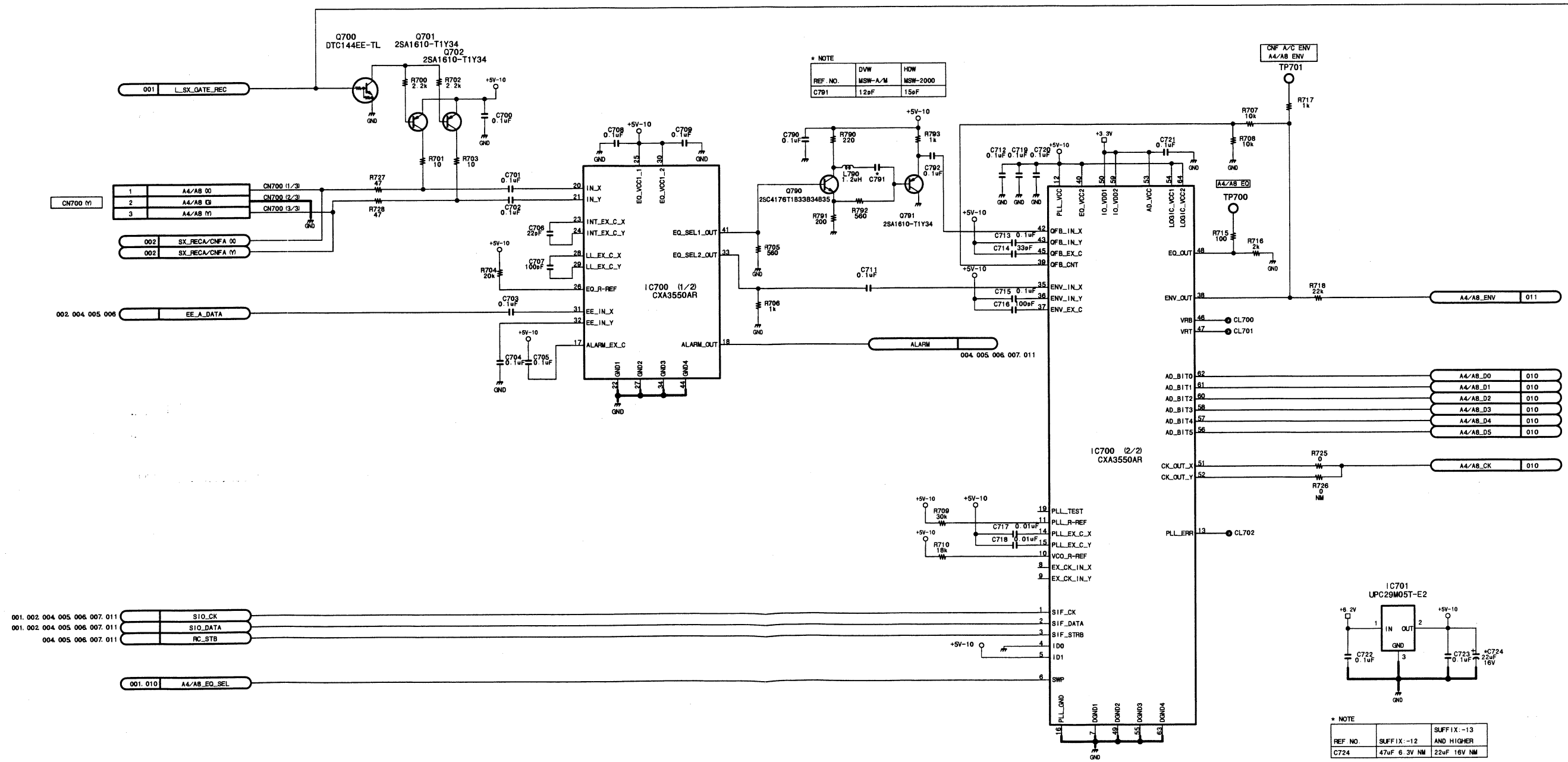


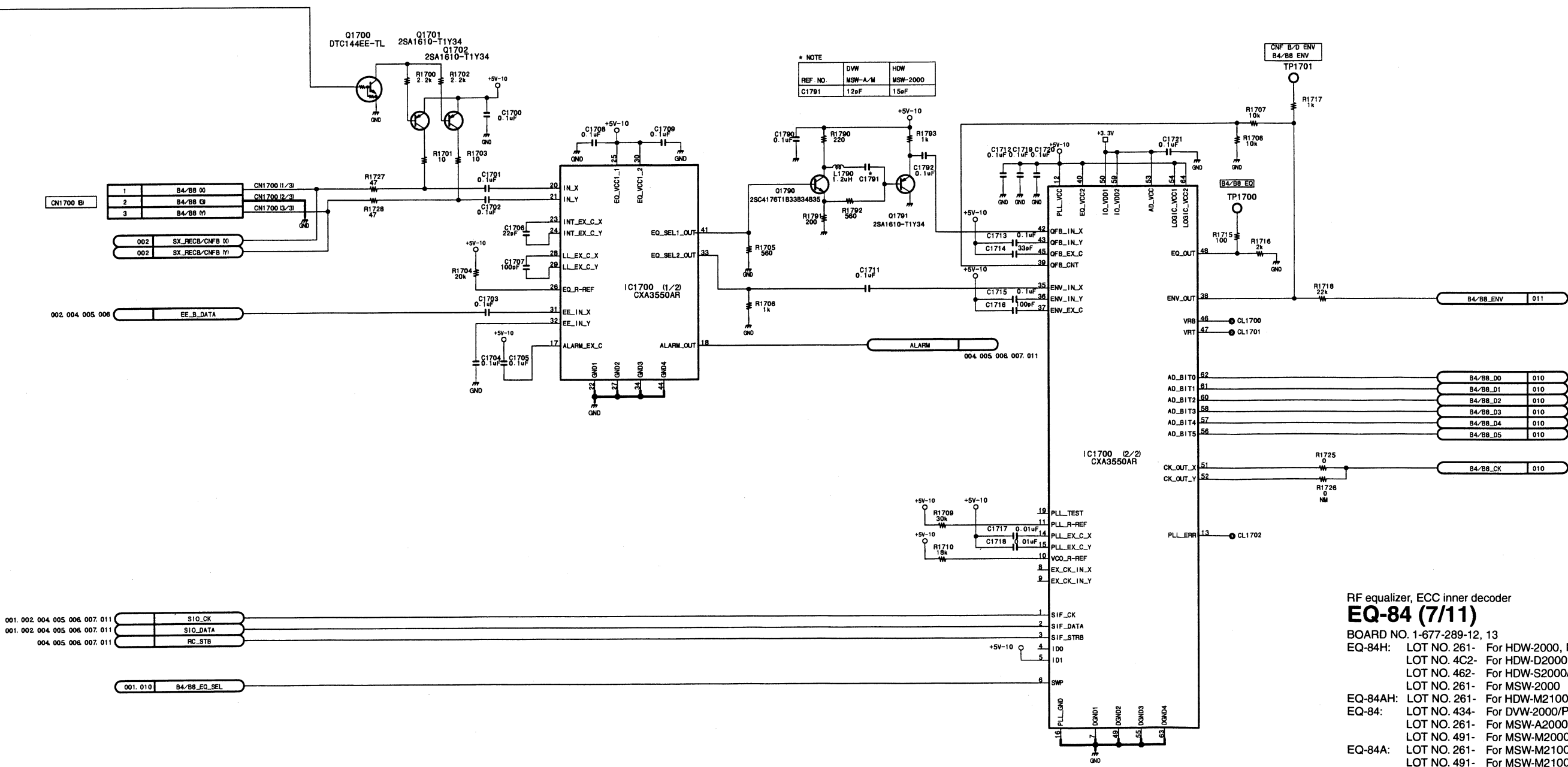
RF equalizer, ECC inner decoder

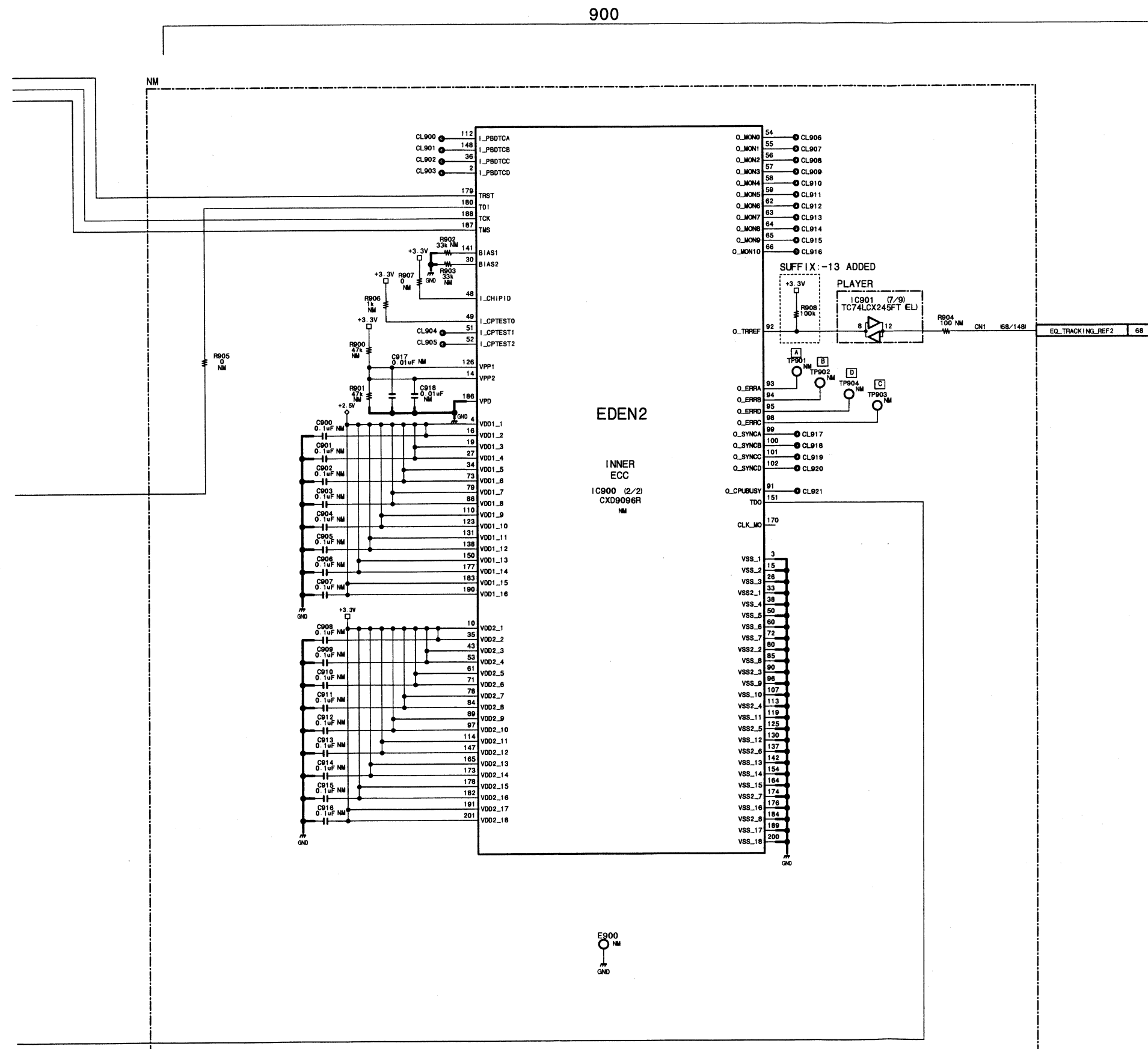
EQ-84 (5/11)

BOARD NO. 1-677-289-12, 13

EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
 LOT NO. 4C2- For HDW-D2000
 LOT NO. 462- For HDW-S2000/P
 LOT NO. 261- For MSW-2000
 EQ-84AH: LOT NO. 261- For HDW-M2100/P, A2100
 EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
 LOT NO. 261- For MSW-A2000/P, M2000/P
 LOT NO. 491- For MSW-M2000E/P
 EQ-84A: LOT NO. 261- For MSW-M2100/P
 LOT NO. 491- For MSW-M2100E/P







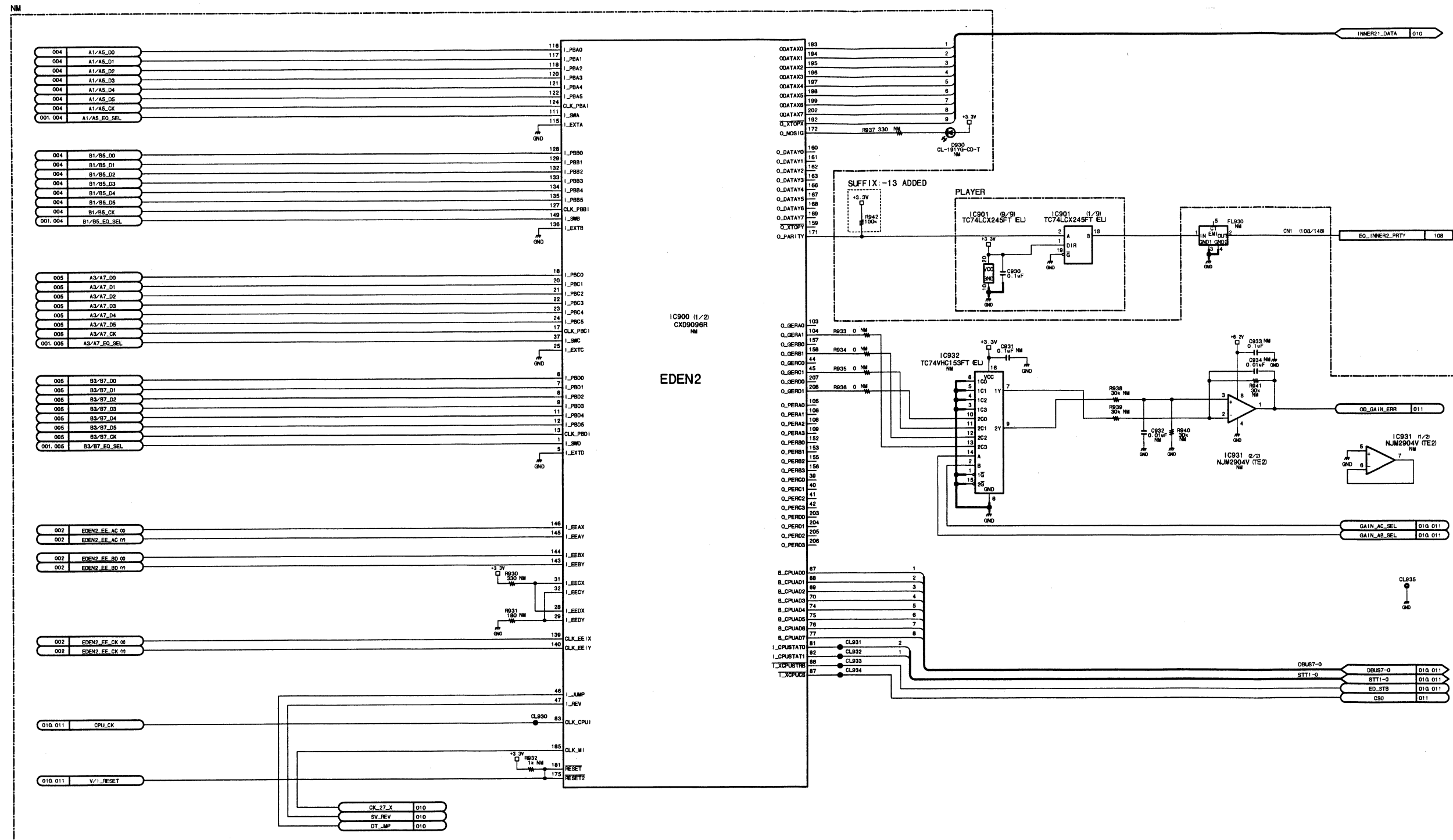
RF equalizer, ECC inner decoder

EQ-84 (8/11)

BOARD NO. 1-677-289-12, 13

EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/PEQ-84AH: LOT NO. 261- For HDW-M2100/P, A2100
EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-A2000/P, N2000/PEQ-84A: LOT NO. 261- For MSW-M2000E/P
LOT NO. 491- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P



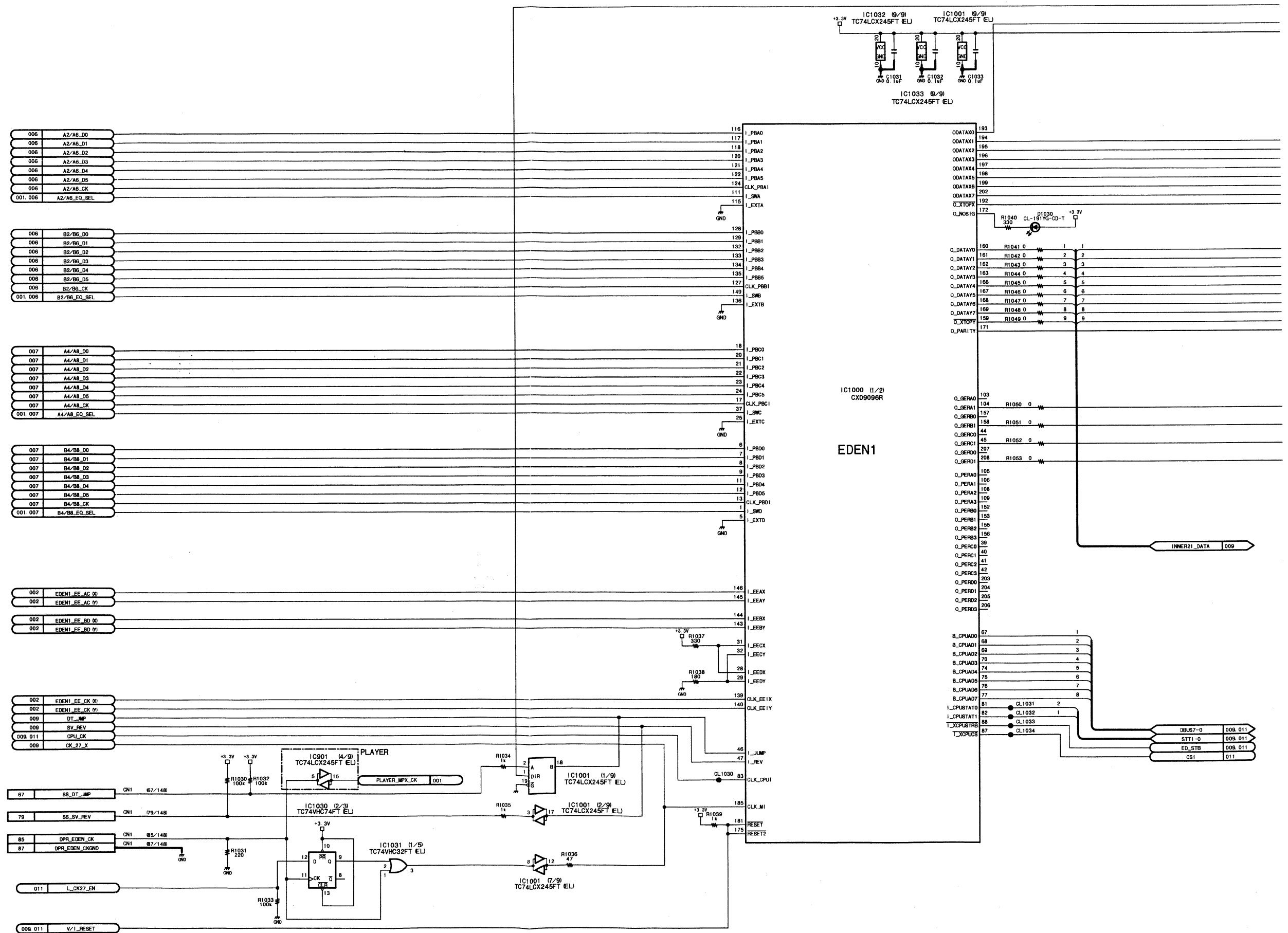


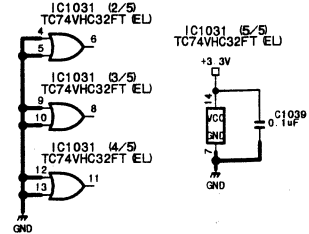
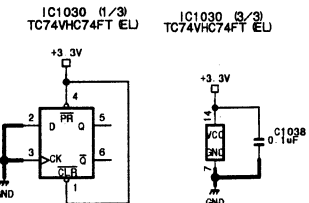
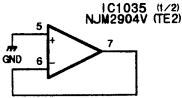
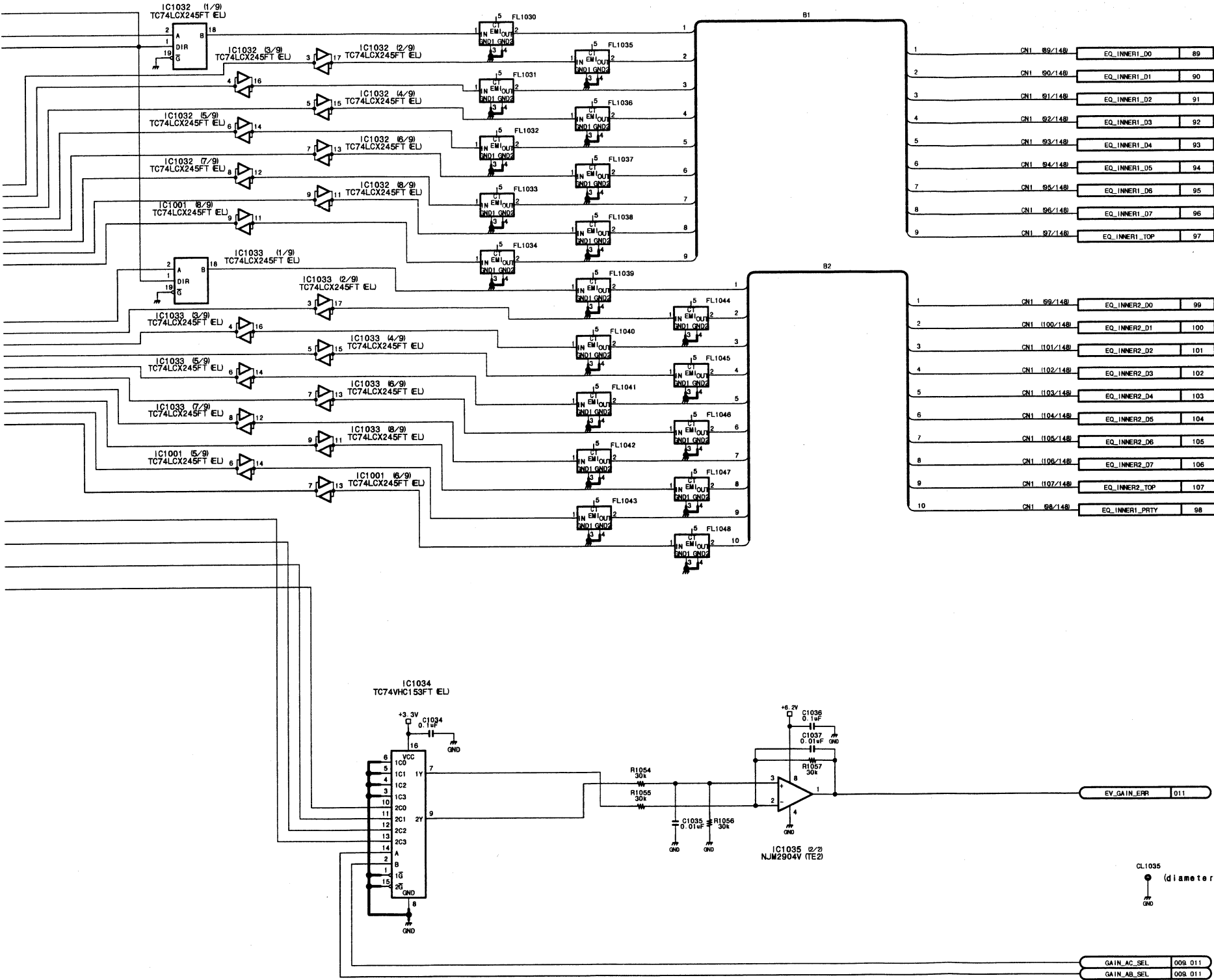
RF equalizer, ECC inner decoder

EQ-84 (9/11)

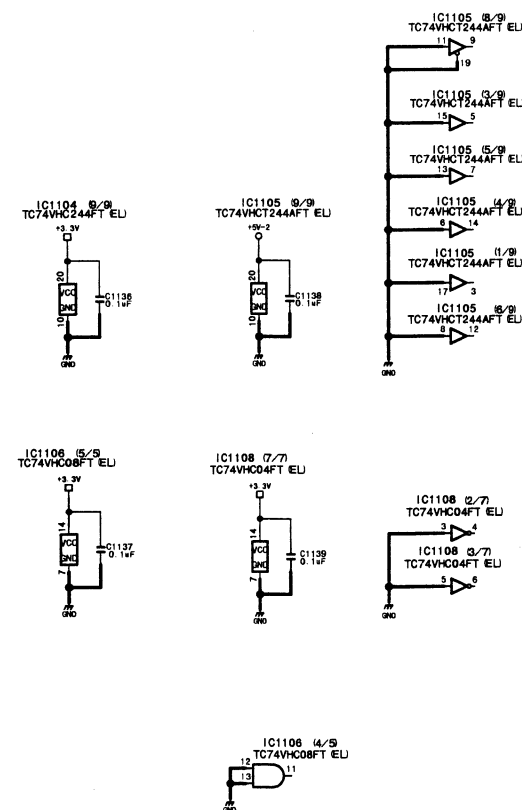
BOARD NO. 1-677-289-12, 13

EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 261- For MSW-2000
EQ-84AH: LOT NO. 261- For HDW-M2100/P, A2100
EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-A2000/P, N2000/P
LOT NO. 491- For MSW-M2000E/P
EQ-84A: LOT NO. 261- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P



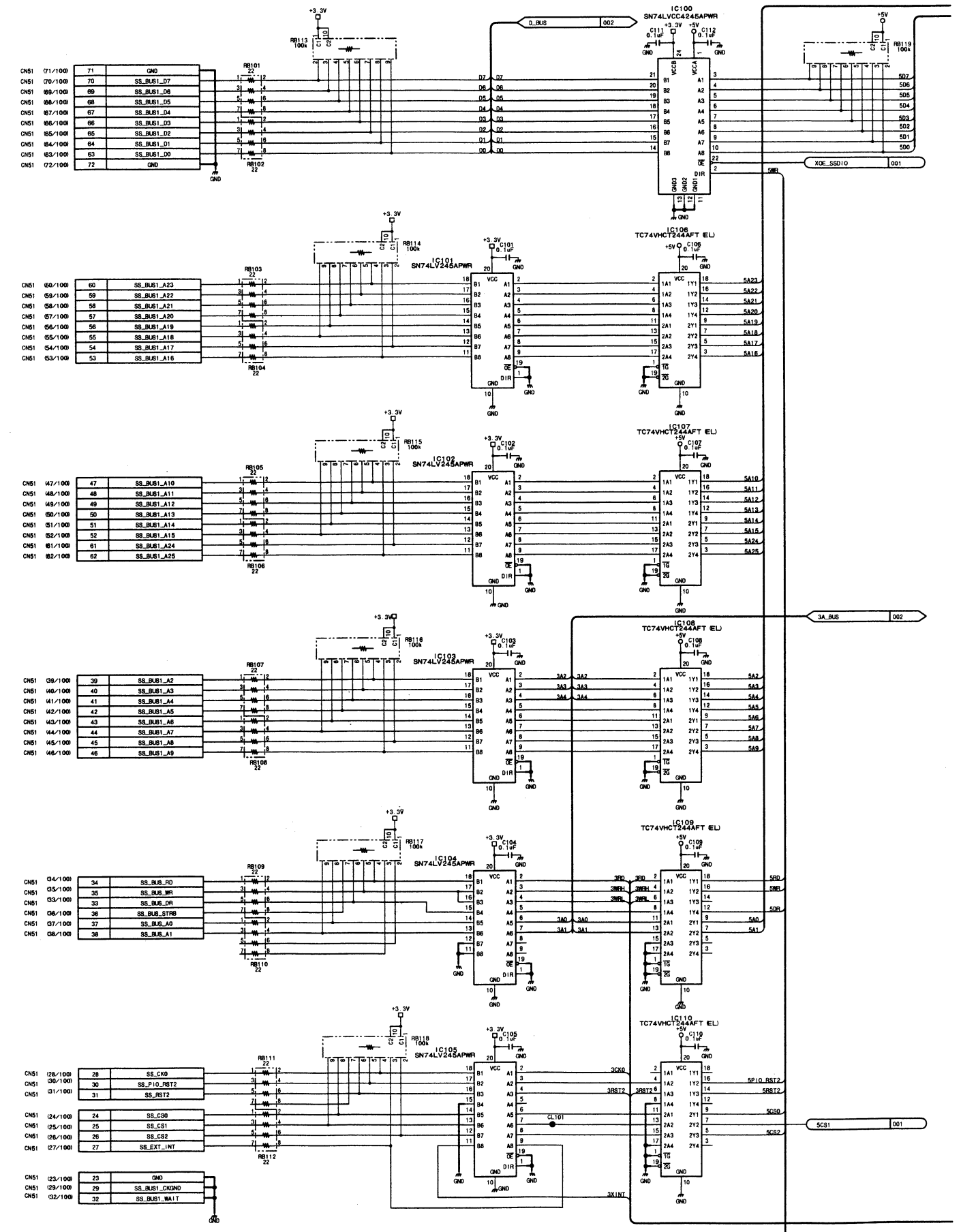


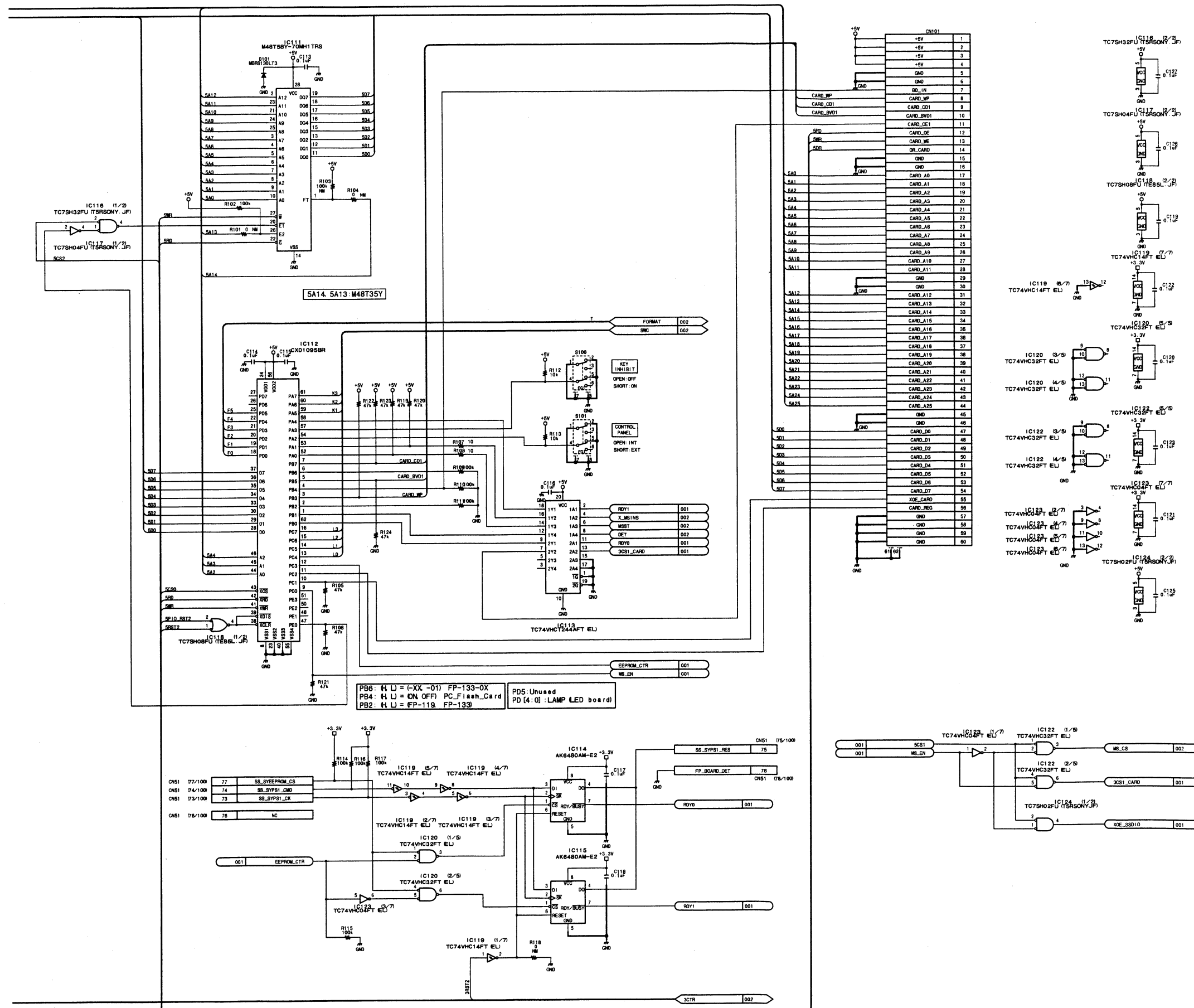
RF equalizer, ECC inner decoder
EQ-84 (10/11)
BOARD NO. 1-677-289-12, 13
EQ-84H: LOT NO. 261- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 261- For MSW-2000
EQ-84AH: LOT NO. 261- For HDW-M2100/P, M2100/P
EQ-84: LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
EQ-84A: LOT NO. 261- For MSW-M2100/P
LOT NO. 491- For MSW-M2100E/P



BOARD NO. 1-677-289-12, 13

EQ-84H:	LOT NO. 261-	For HDW-2000, M2000/P
	LOT NO. 4C2-	For HDW-D2000
	LOT NO. 462-	For HDW-S2000/P
	LOT NO. 261-	For MSW-2000
EQ-84AH:	LOT NO. 261-	For HDW-M2100/P, A2100
EQ-84:	LOT NO. 434-	For DVW-2000/P, M2000/P
	LOT NO. 261-	For MSW-A2000/P, M2000/P
	LOT NO. 491-	For MSW-M2000E/P
EQ-84A:	LOT NO. 261-	For MSW-M2100/P
	LOT NO. 491-	For MSW-M2100E/P





Memory stick slot and interface, NV-RAMs, Switch panel function (Switches, Control panel connection)

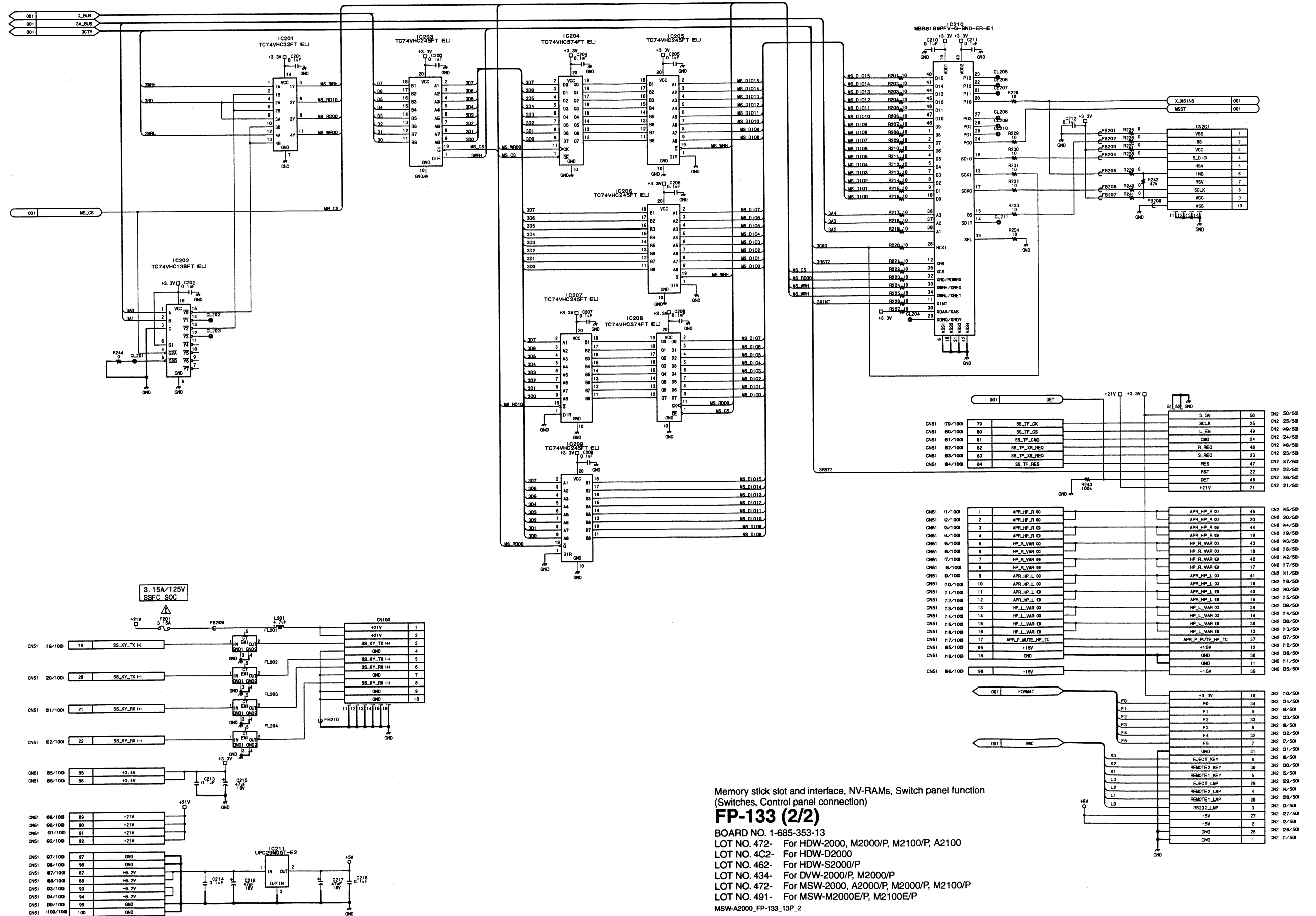
FP-133 (1/2)

BOARD NO. 1-685-353-13
LOT NO. 472- For HDW-2000, M2000/P, M2100/P, A2100/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
LOT NO. 434- For DVW-2000/P, M2000/P, M2100/P
LOT NO. 472- For MSW-2000, A2000/P, M2000/P, M2100/P
LOT NO. 491- For MSW-M2000E/P, M2100E/P
MSW-A2000_FP-133_13P_1



FP-133 (2/2)
SUFFIX: -13

FP-133 (2/2)
SUFFIX: -13



Memory stick slot and interface, NV-RAMs, Switch panel function
(Switches, Control panel connection)

FP-133 (2/2)

BOARD NO. 1-685-353-13

LOT NO. 472- For HDW-2000, M2000/P, M2100/P, A2100

LOT NO. 4C2- For HDW-D2000

LOT NO. 462- For HDW-S2000/P

LOT NO. 434- For DVW-2000/P, M2000/P

LOT NO. 472- For MSW-2000, A2000/P, M2000/P, M2100/P

LOT NO. 491- For MSW-M2000E/P, M2100E/P

MSW-A2000_FP-133_13P_2

HDW series, DVW series, MSW series

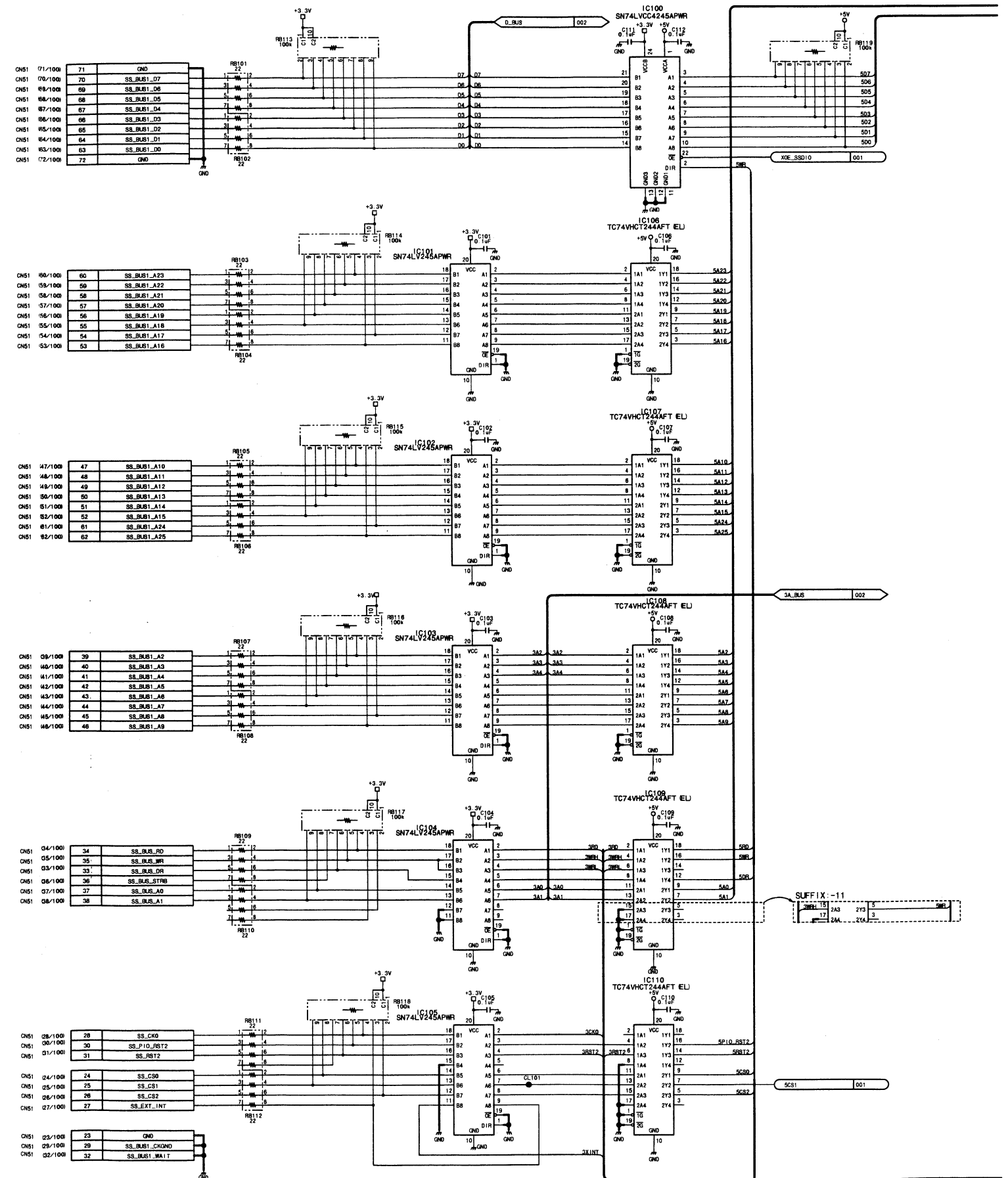
1-201 (b)

1-201 (b)

A B C D E F G H

FP-133 (1/2)
SUFFIX: -11, 12

FP-133 (1/2)
SUFFIX: -11, 12



1-198 (a)

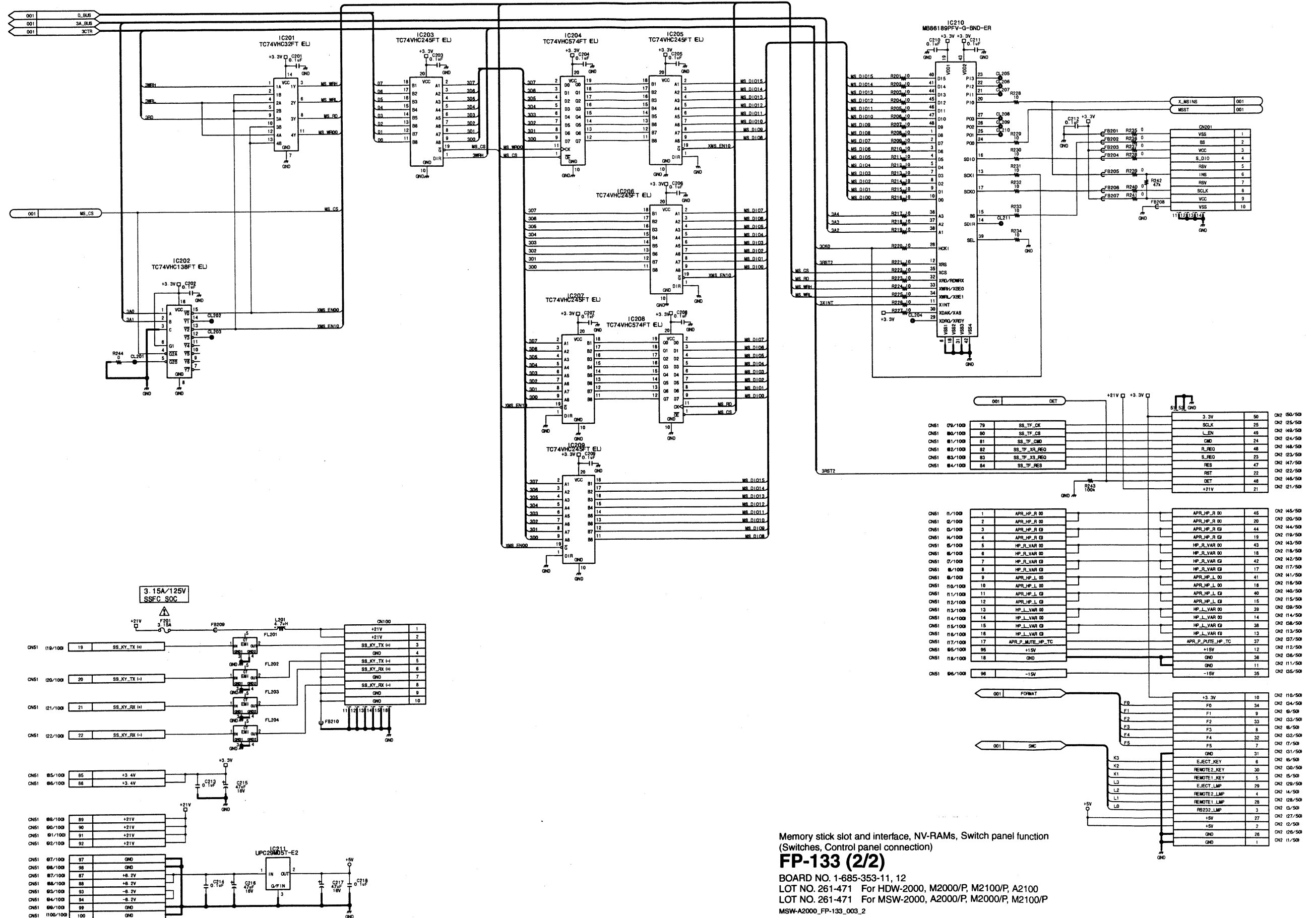
1-198 (a)

HDW series, DVW series, MSW series

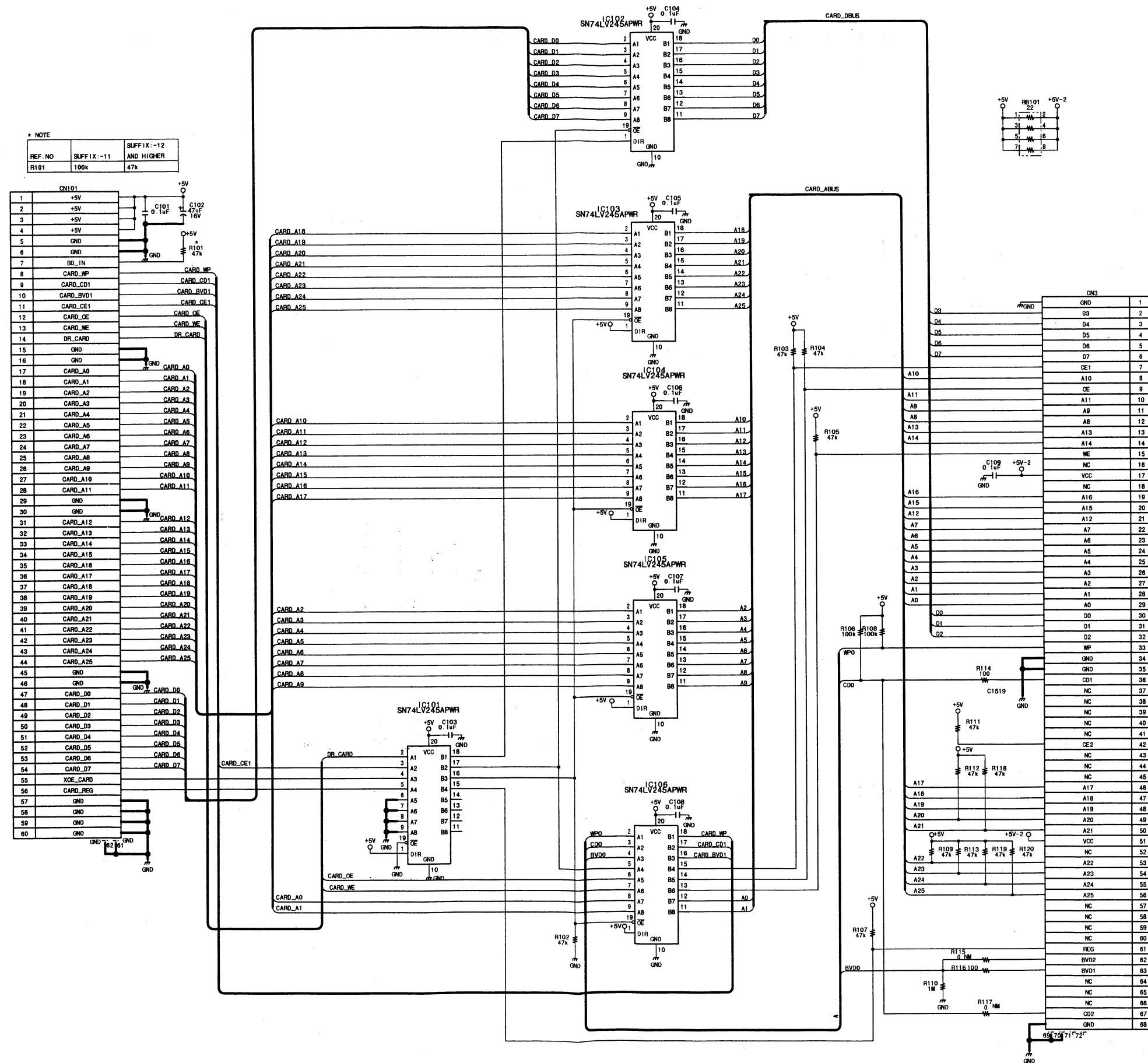


FP-133 (2/2)
SUFFIX: -11, 12

FP-133 (2/2)
SUFFIX: -11, 12



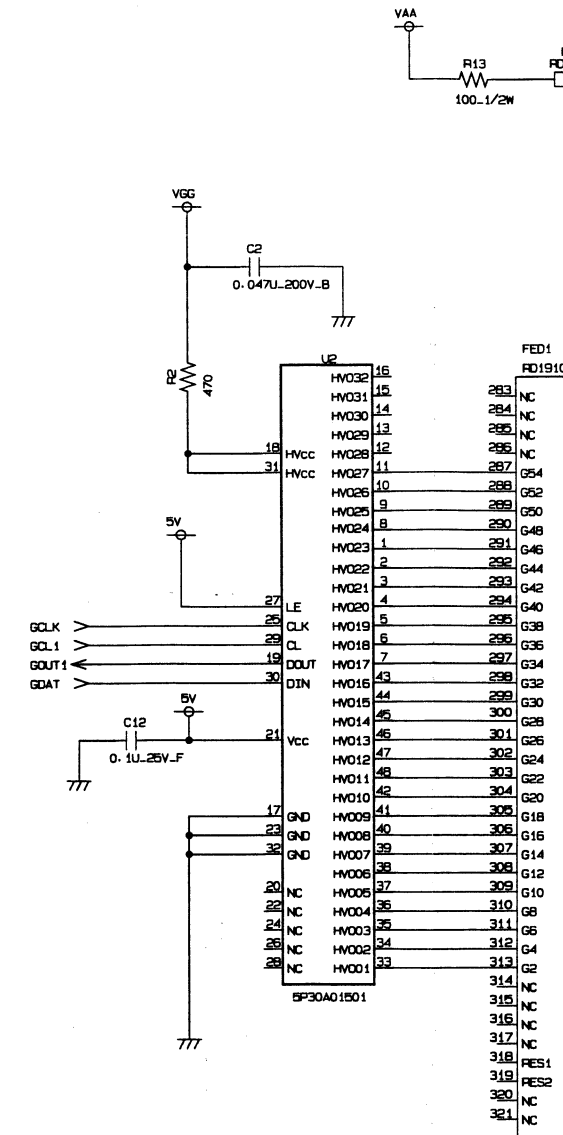
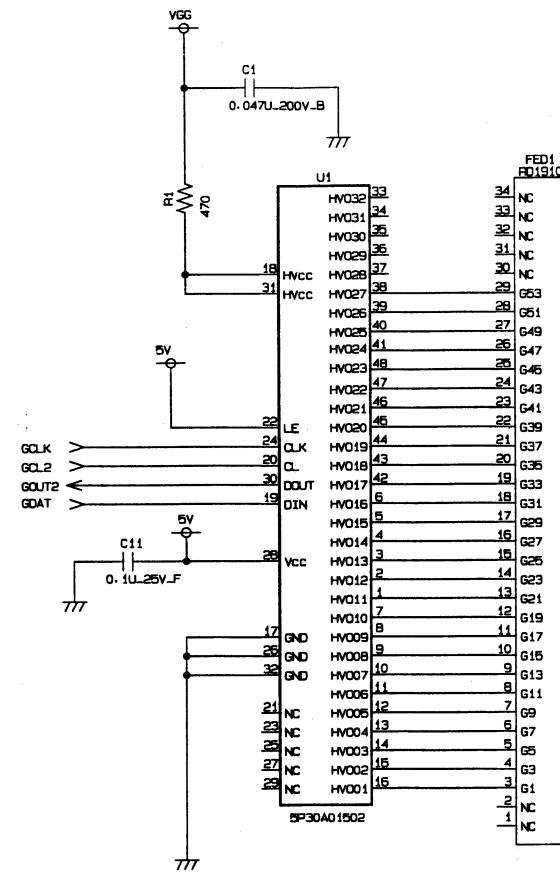
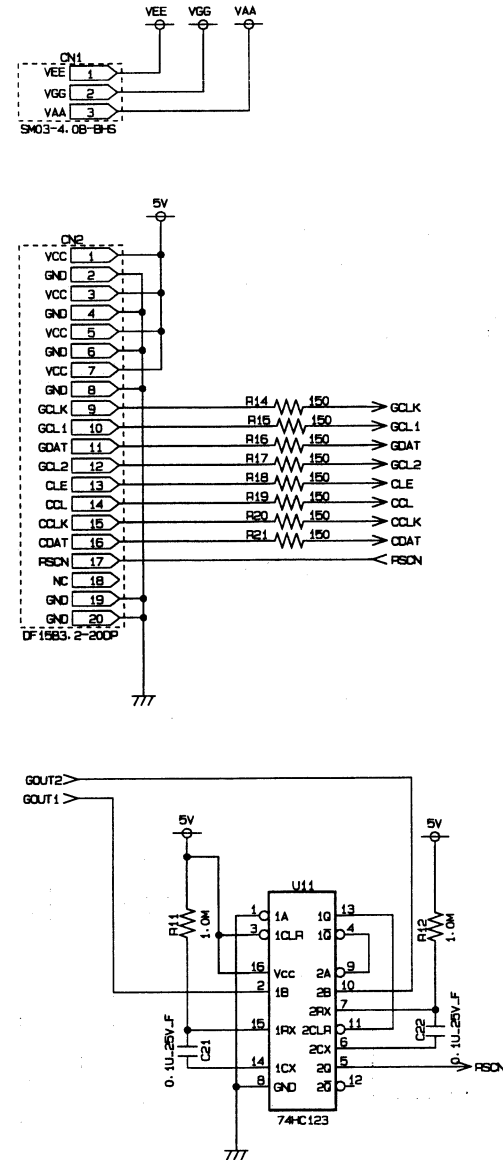
Memory stick slot and interface, NV-RAMs, Switch panel function
(Switches, Control panel connection)
FP-133 (2/2)
BOARD NO. 1-685-353-11, 12
LOT NO. 261-471 For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 261-471 For MSW-2000, A2000/P, M2000/P, M2100/P
MSW-A2000_FP-133_003.2



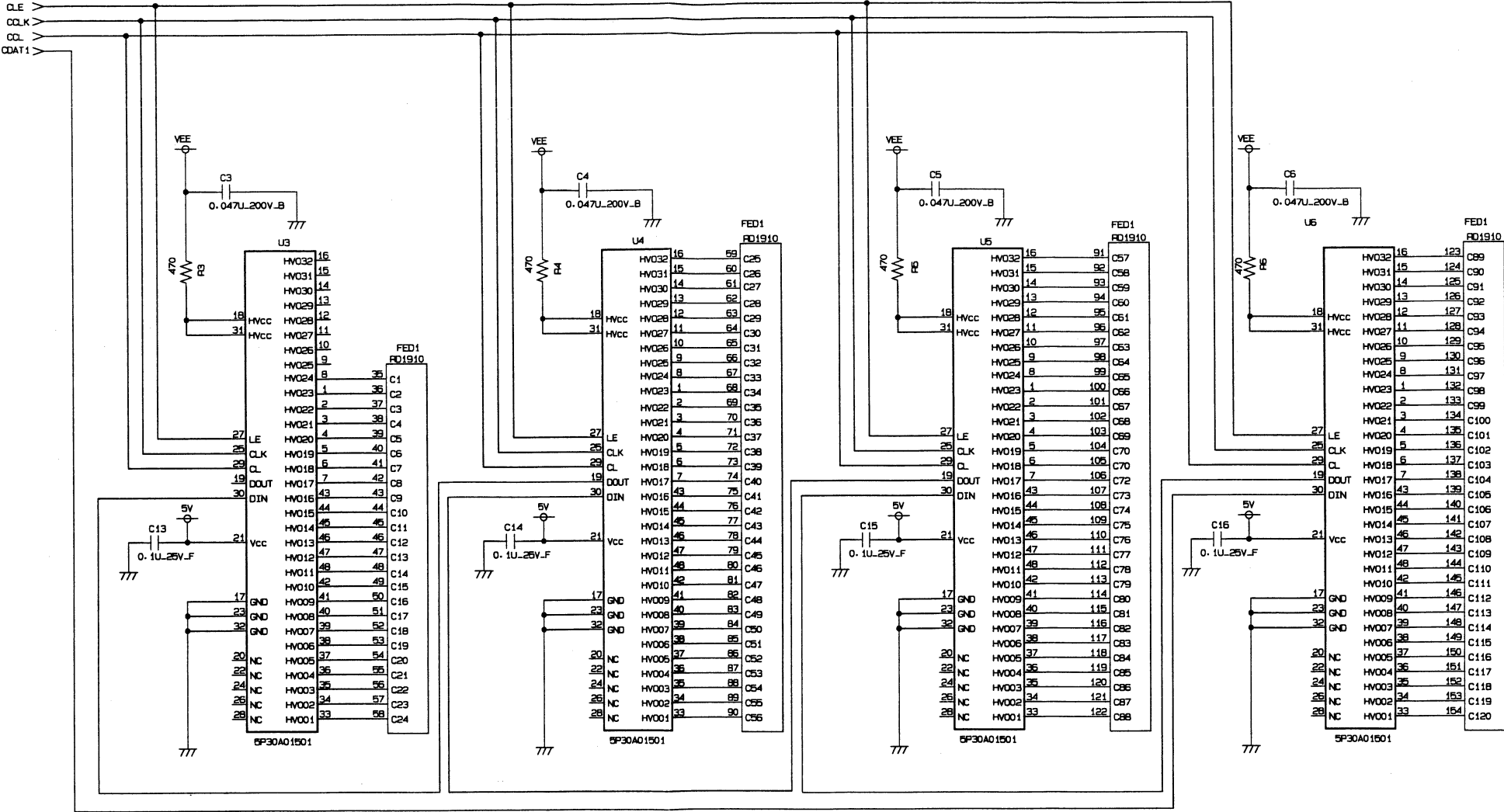
Memory card slot
FP-134
 BOARD NO. 1-685-354-11, 12
 LOT NO. 261-
 MSW-A2000_FP-134_11P_1

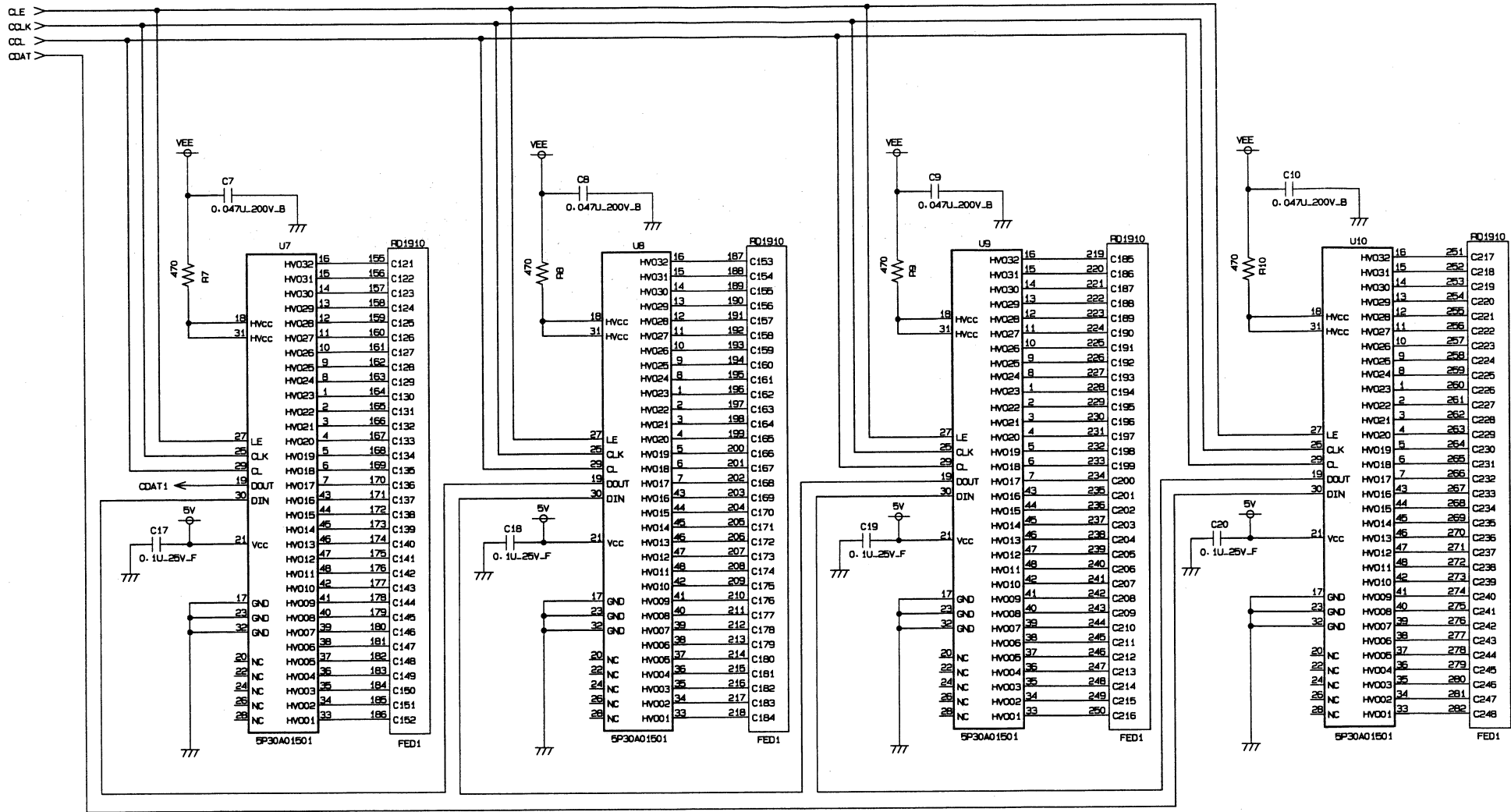
F248B054 (FED Driver) (1/3)

F248B054 (FED Driver) (1/3)

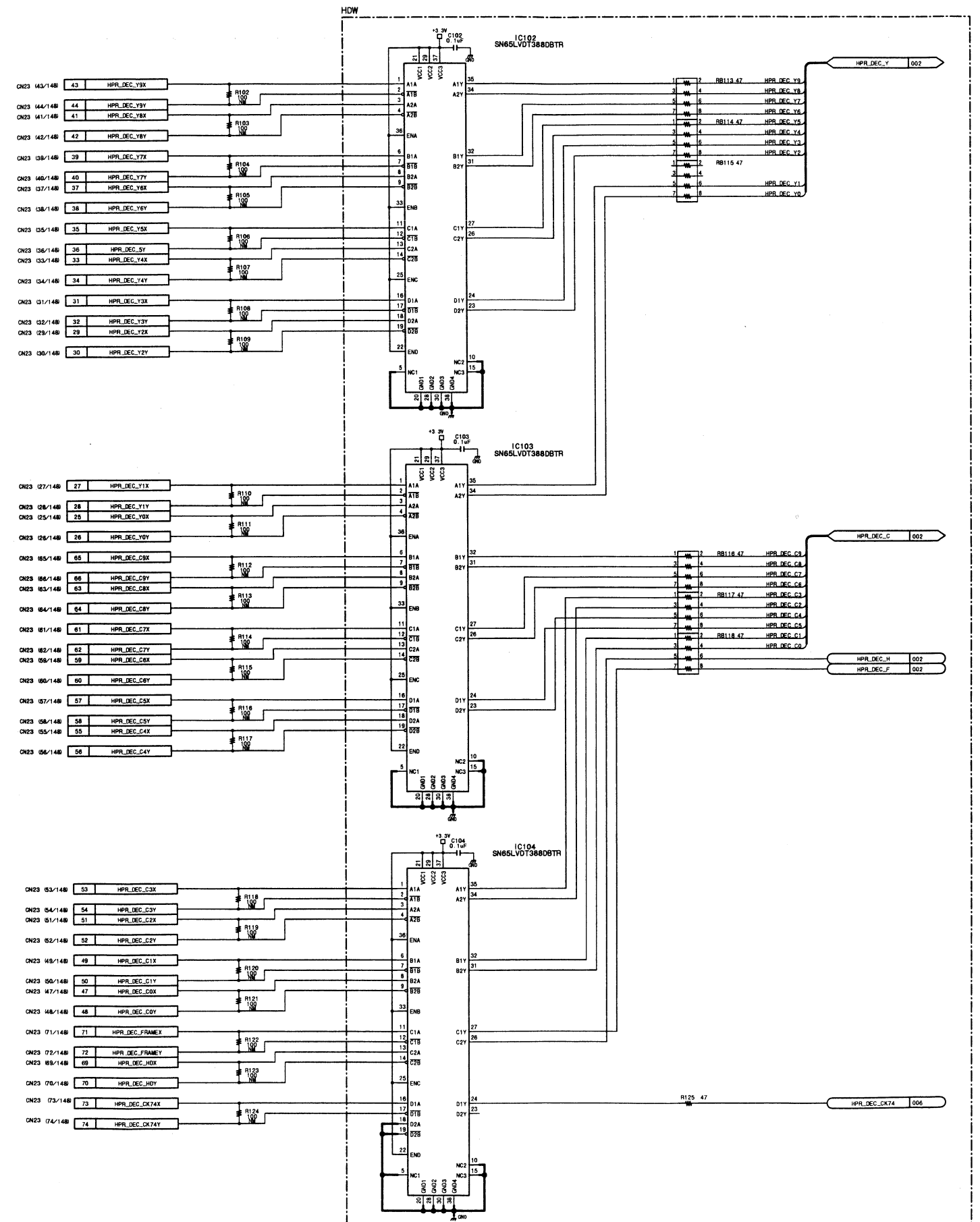
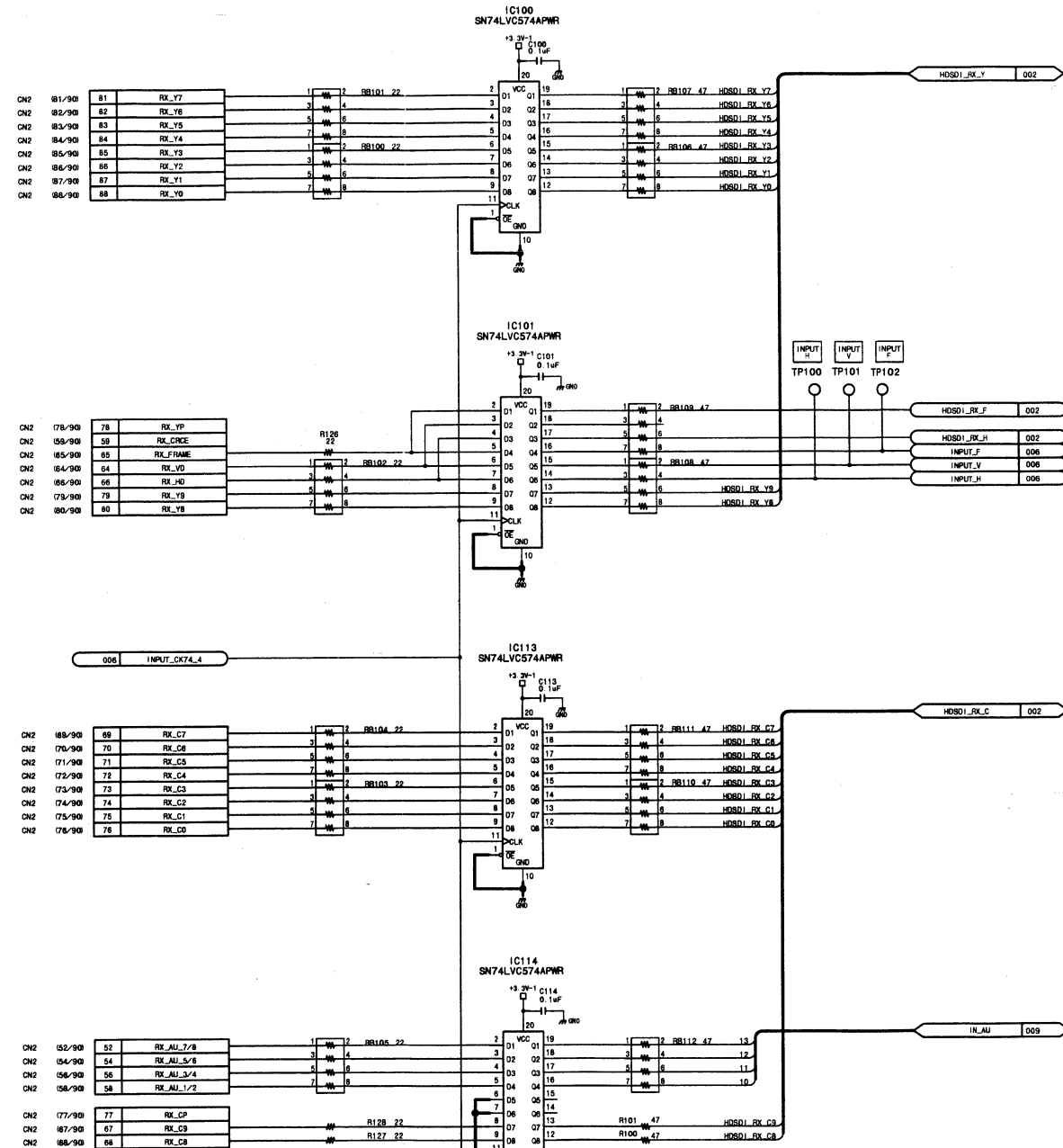


FED Driver
F248B054 (FED Driver) (1/3)
: 1P00A575-01



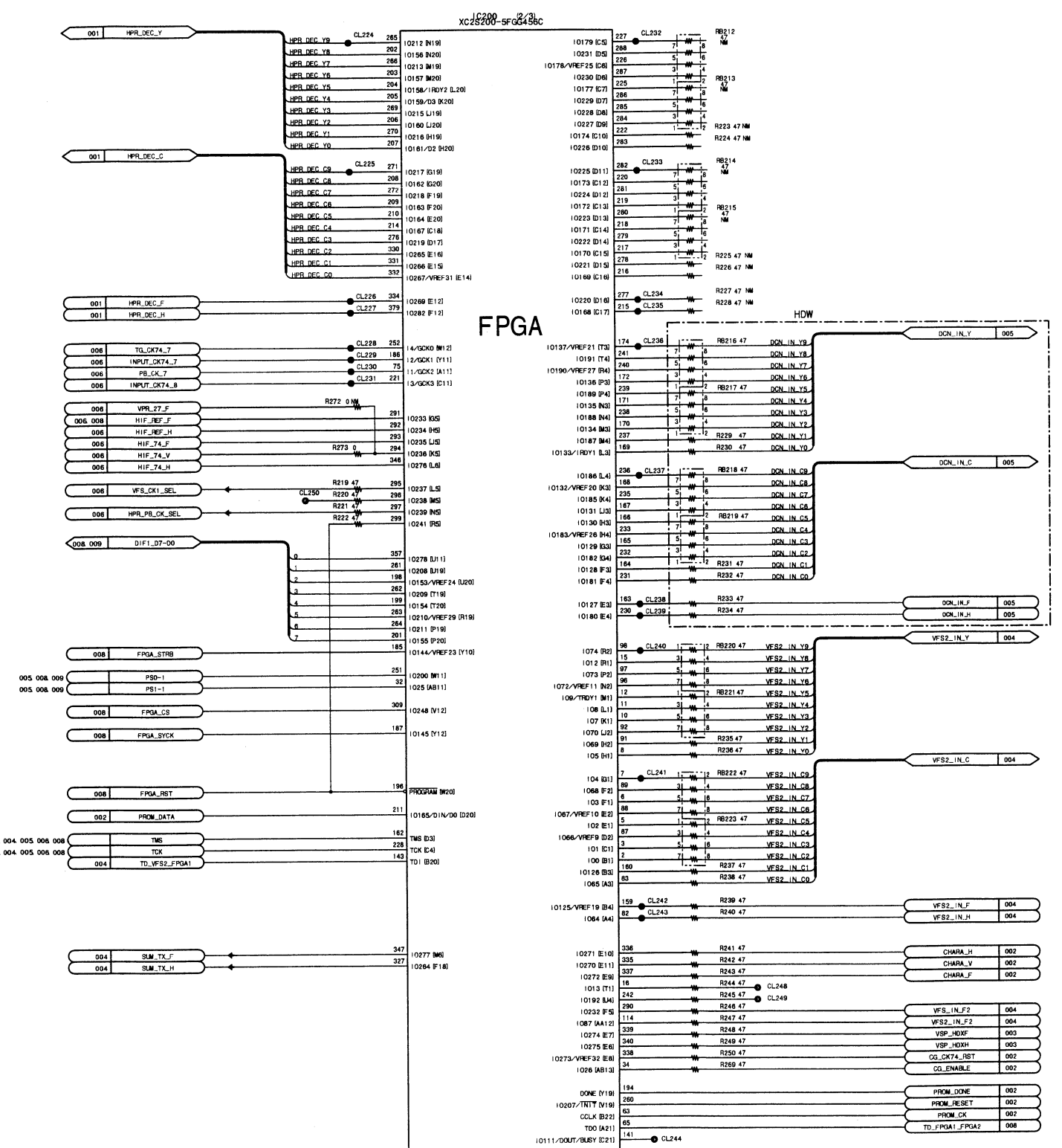
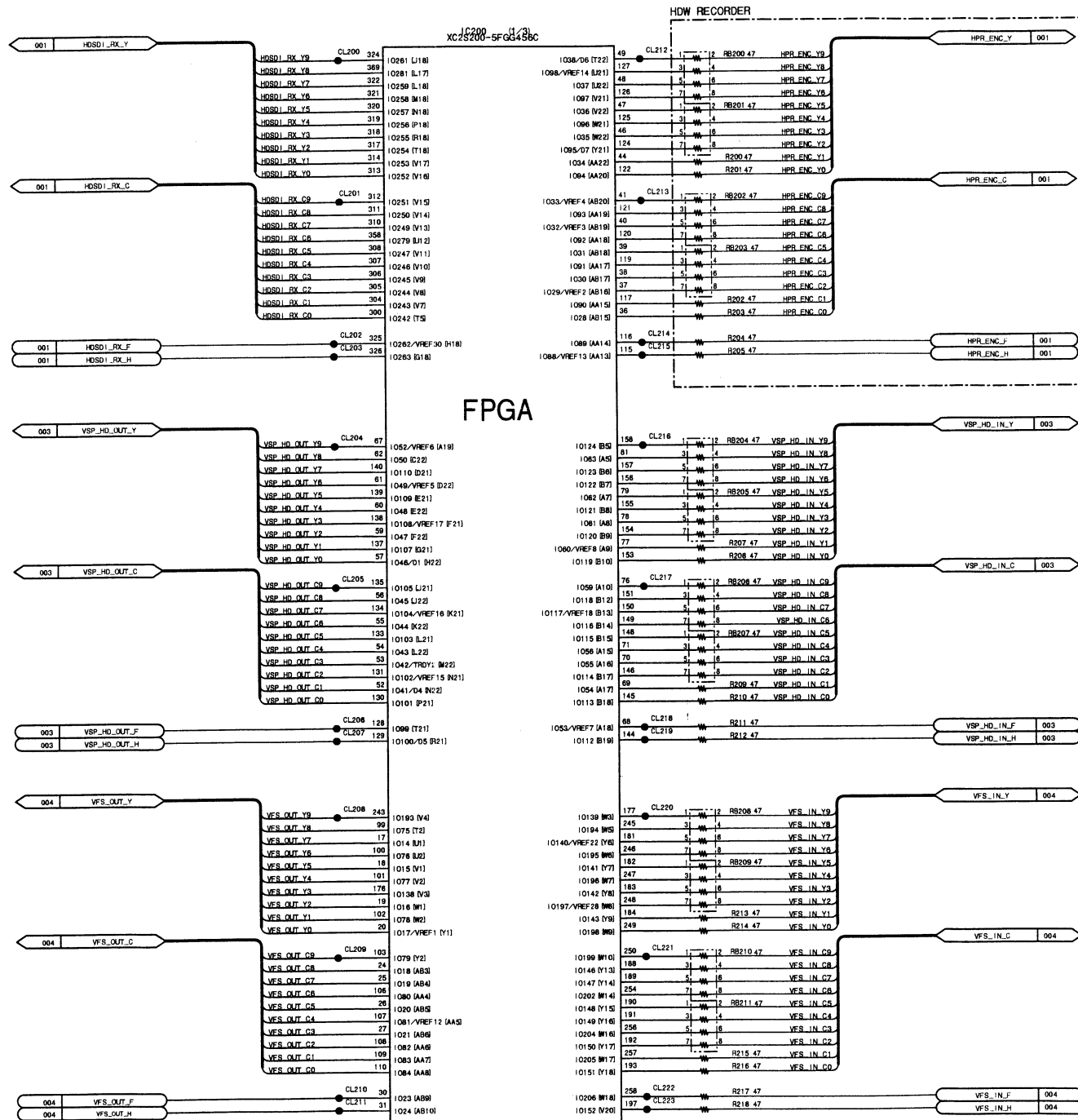


HDW RECORDER



HDW, BKMW-104 (for DVW/MSW) HIF-1 (2/9)
SUFFIX: -24

HIF-1 (2/9) HDW, BKMW-104 (for DVW/MSW)
SUFFIX: -24



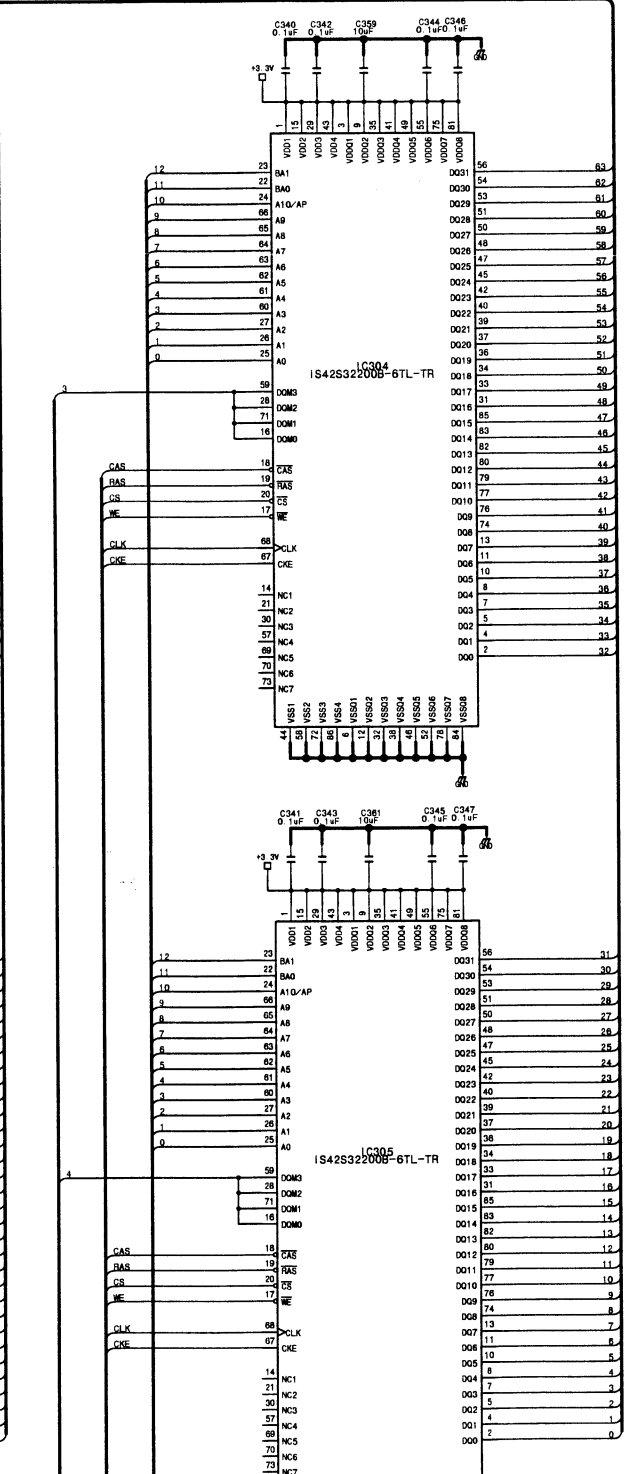
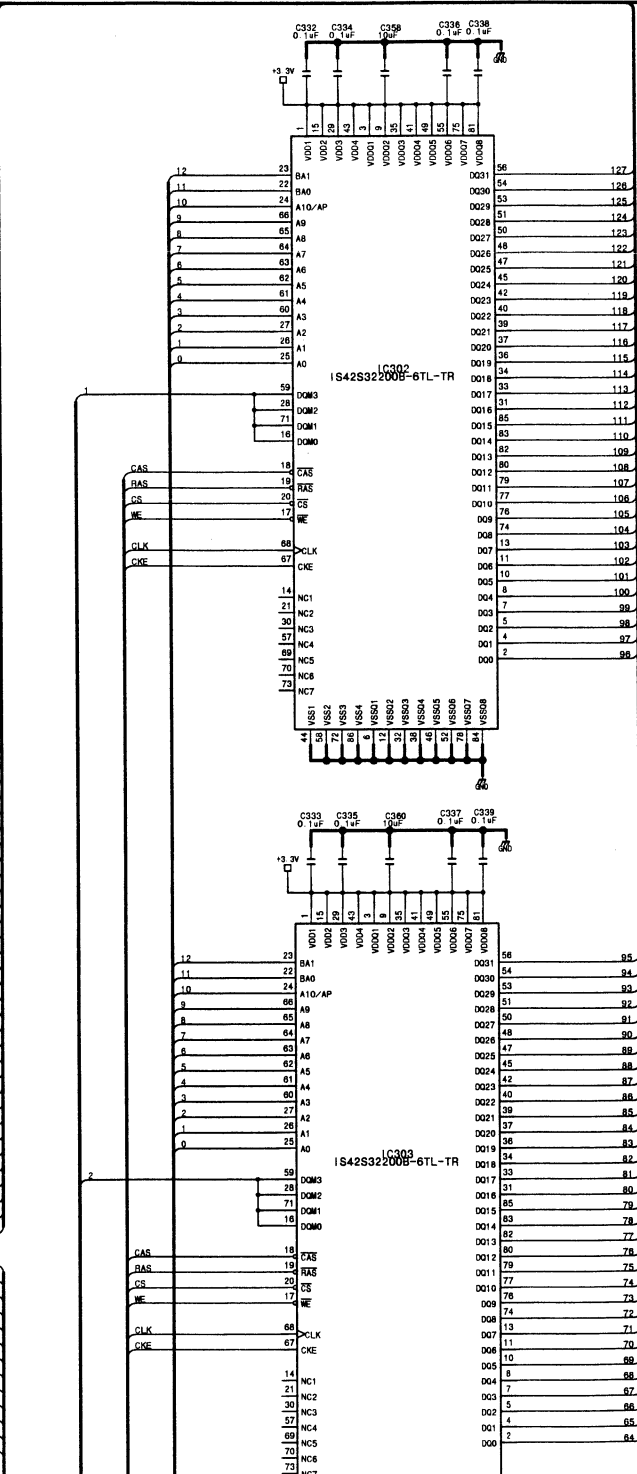
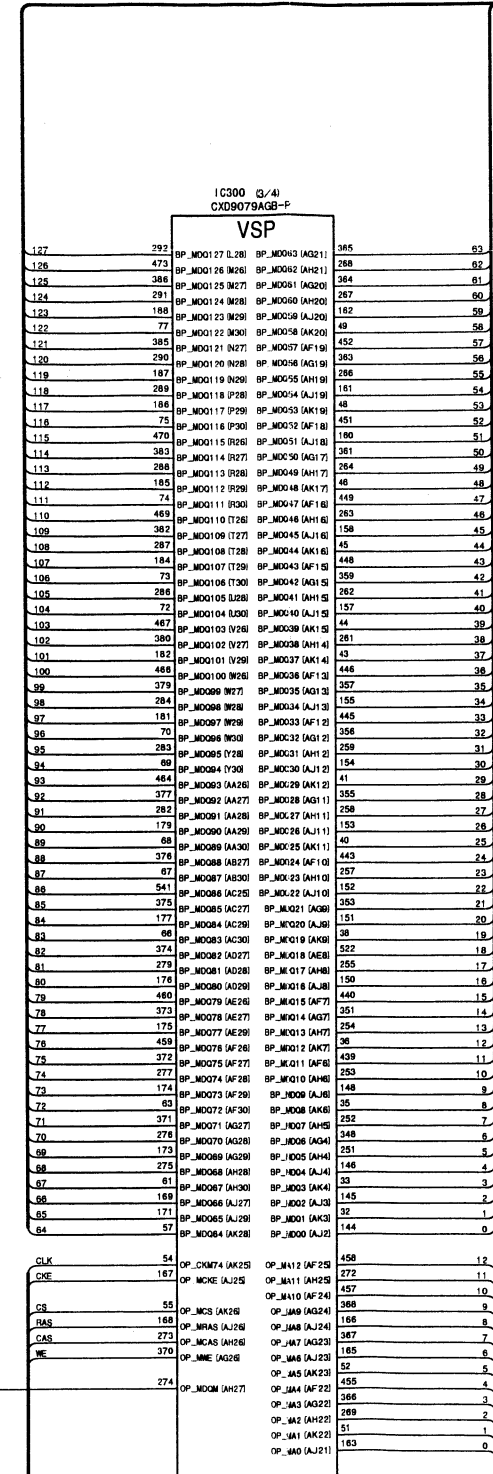
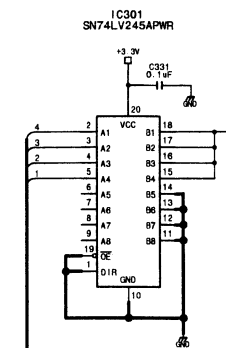
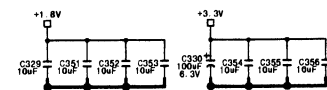
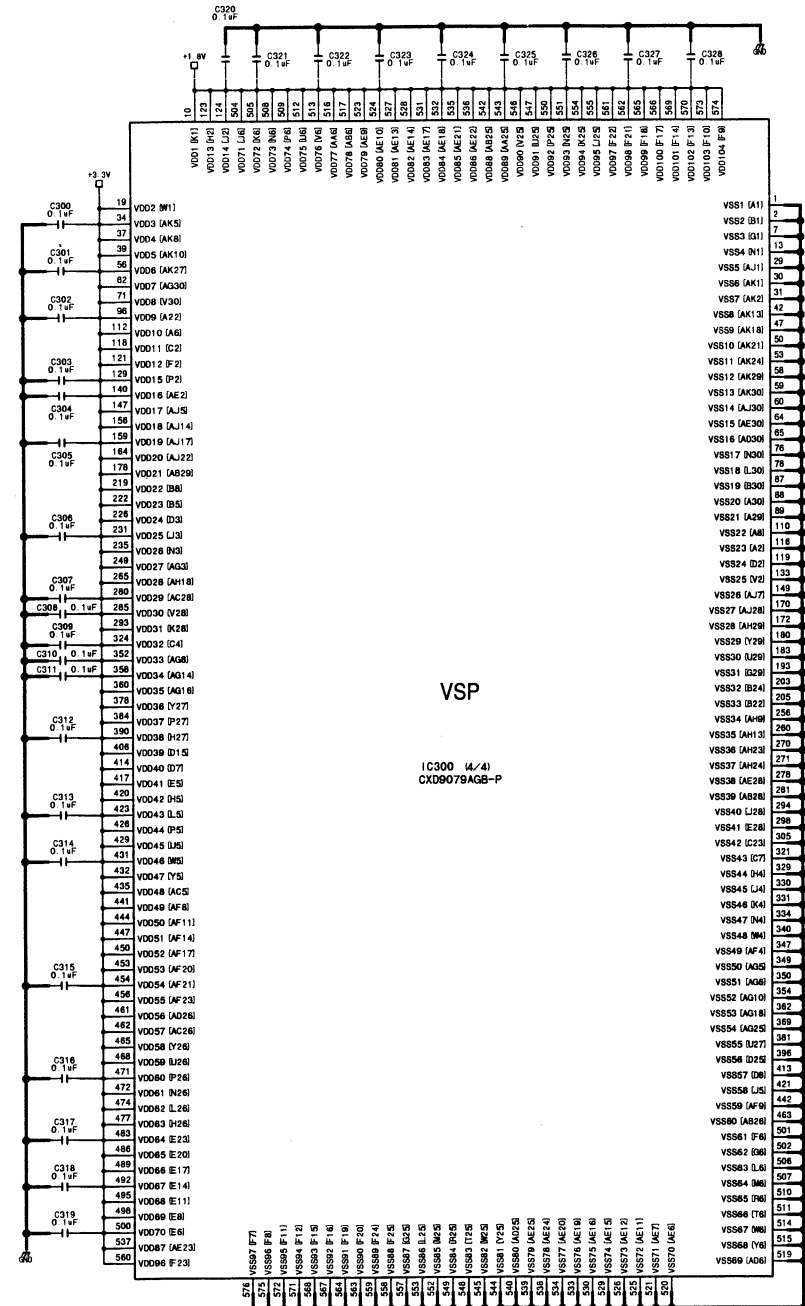
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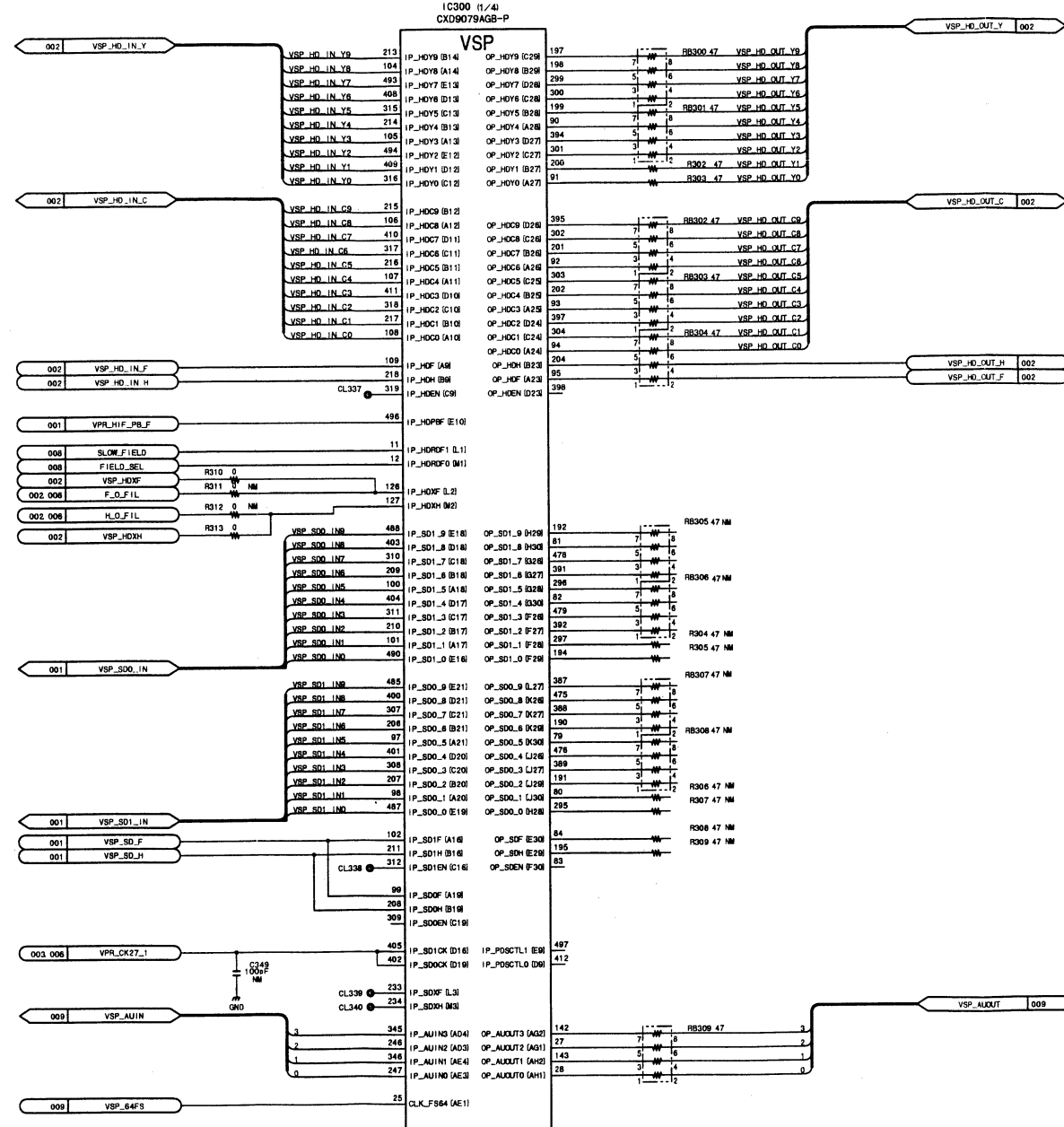
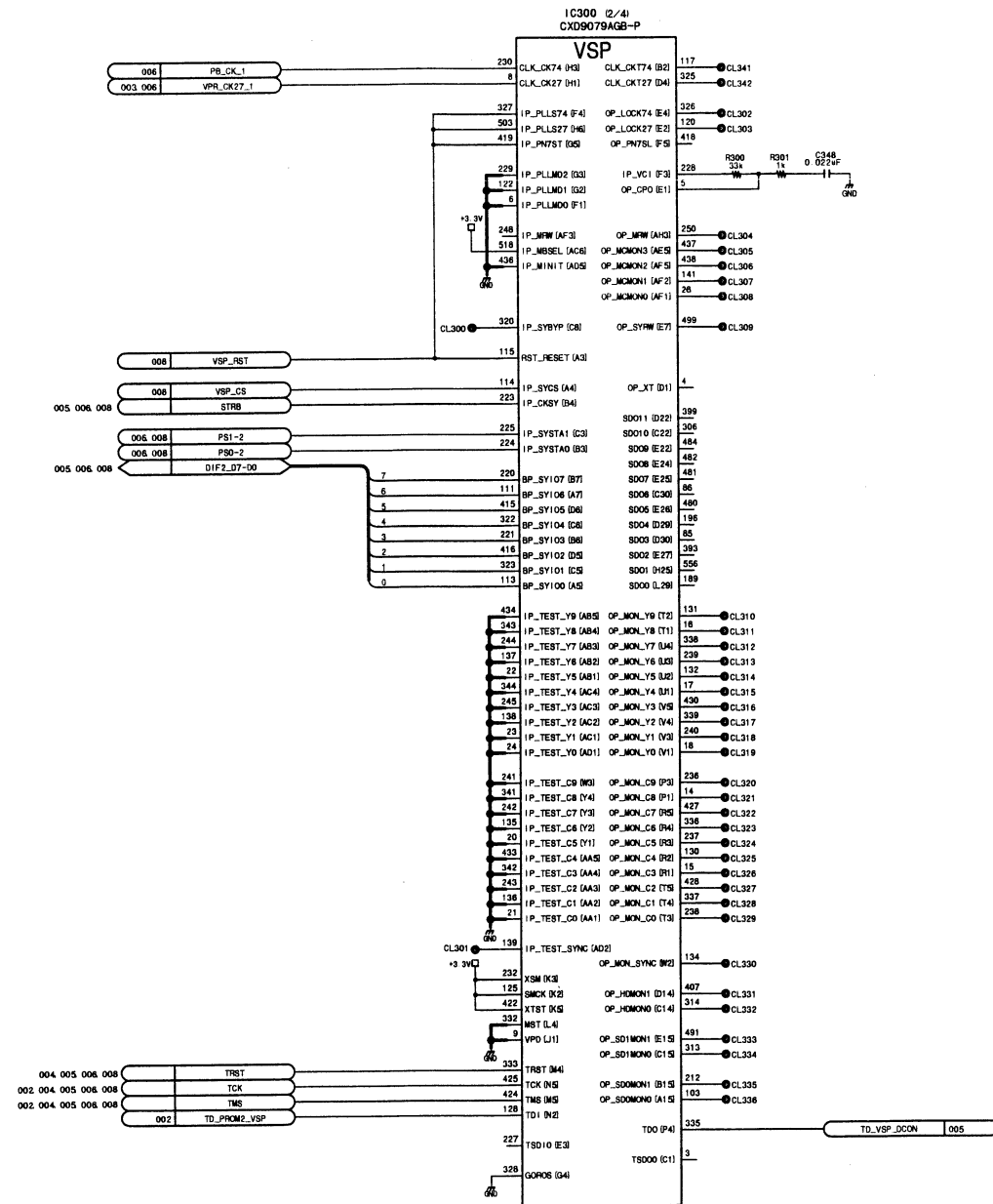
2

3

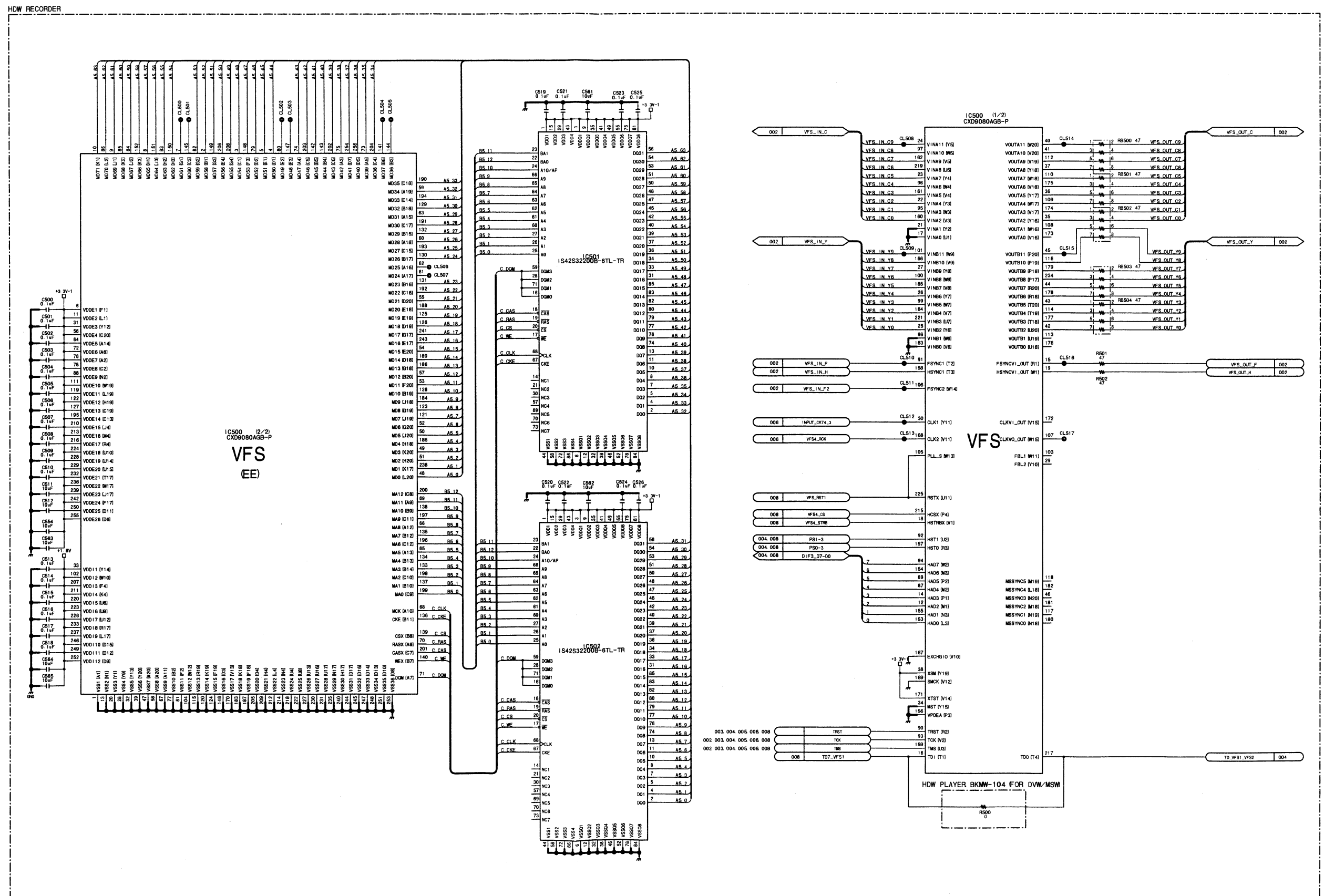
4

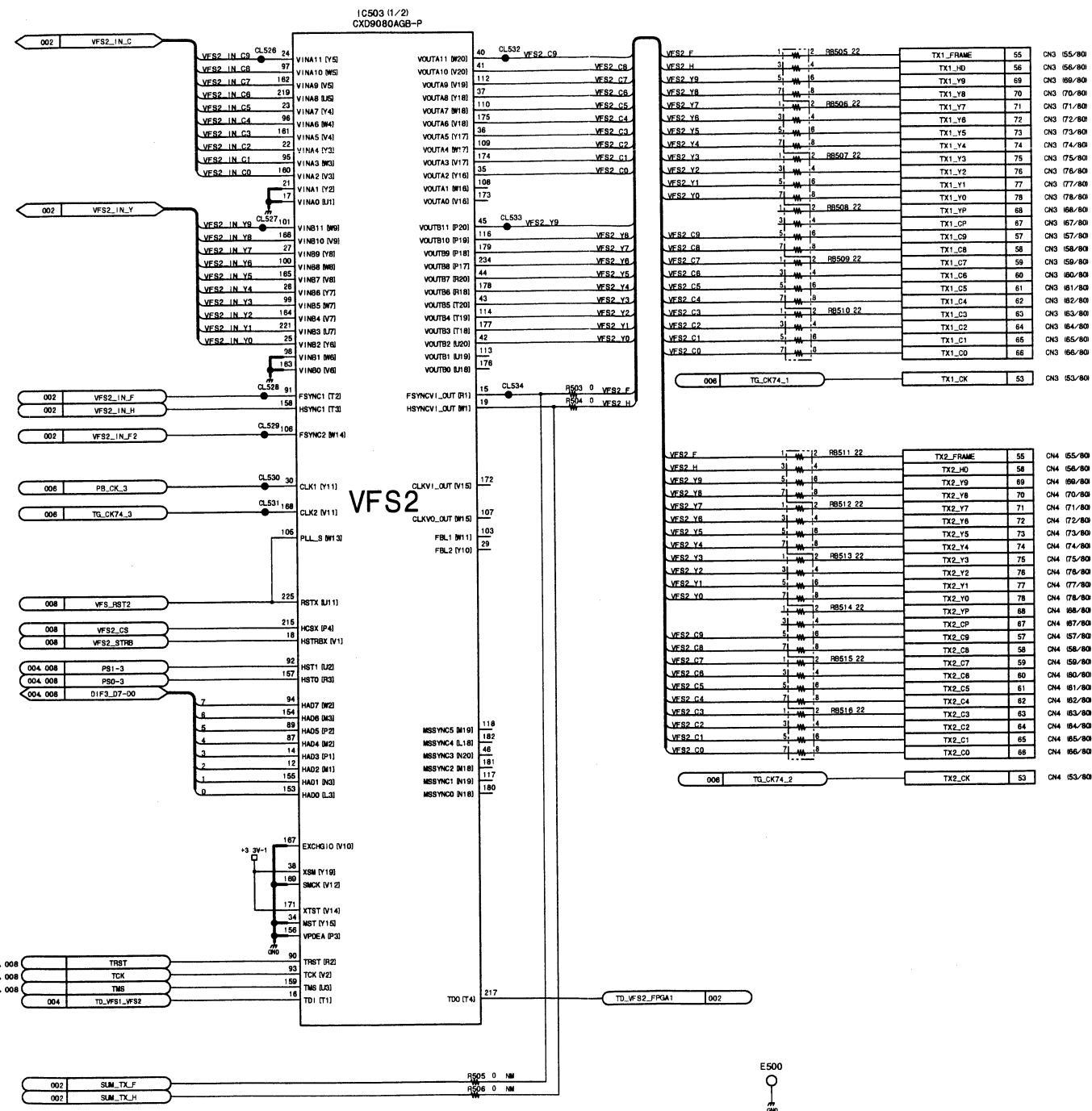
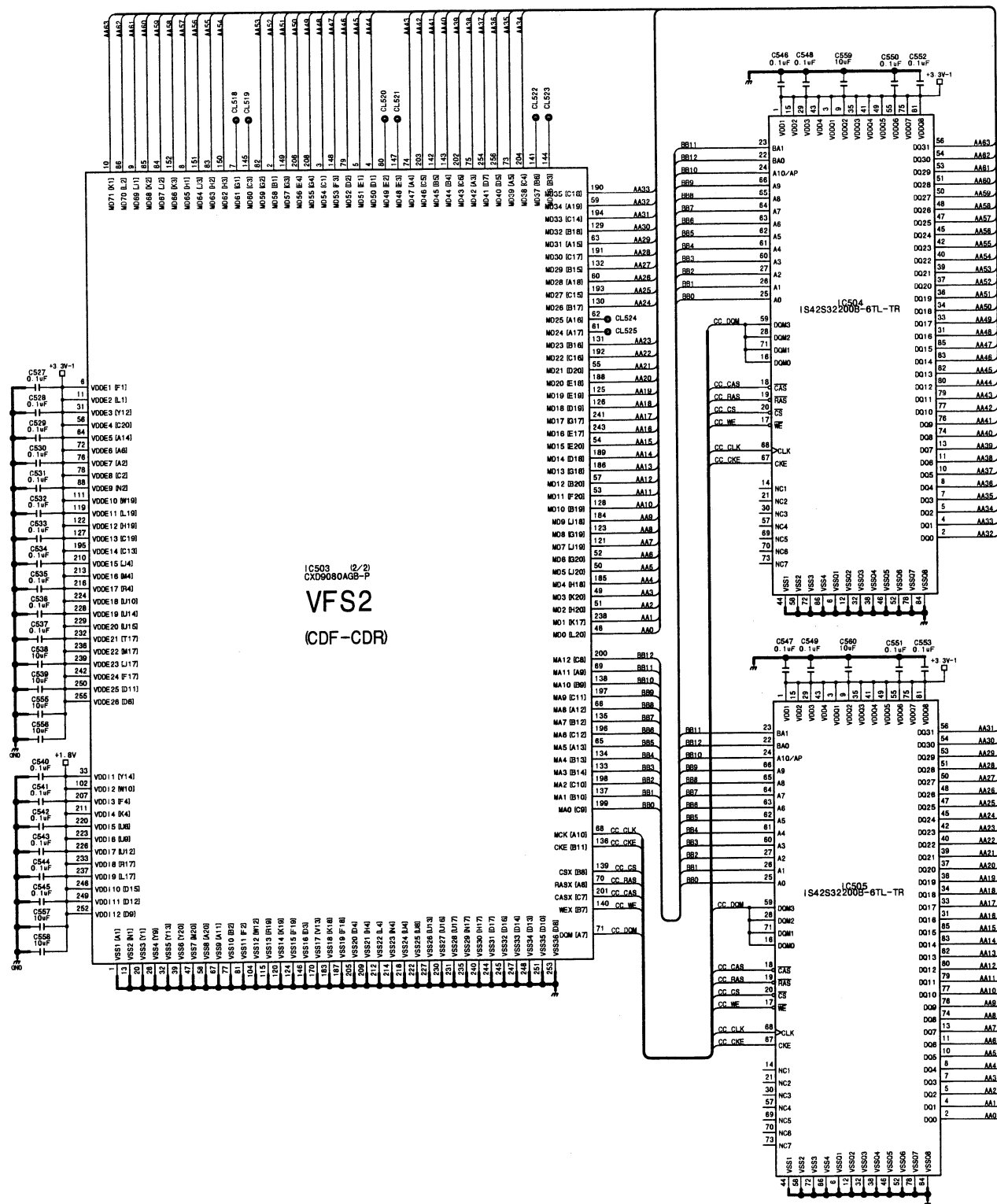
5





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (3/9)
BOARD NO. 1-679-847-24
HIF-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HIF-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HIF-1B: LOT NO. 3C1- For BKMW-104 (Option for DVW/MSW)
HDW-A2100_HIF-1_24P_3





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)

HIF-1 (4/9)

BOARD NO. 1-679-847-24

HIF-1: LOT NO. 3C1- For HDW-2000, M2000/P

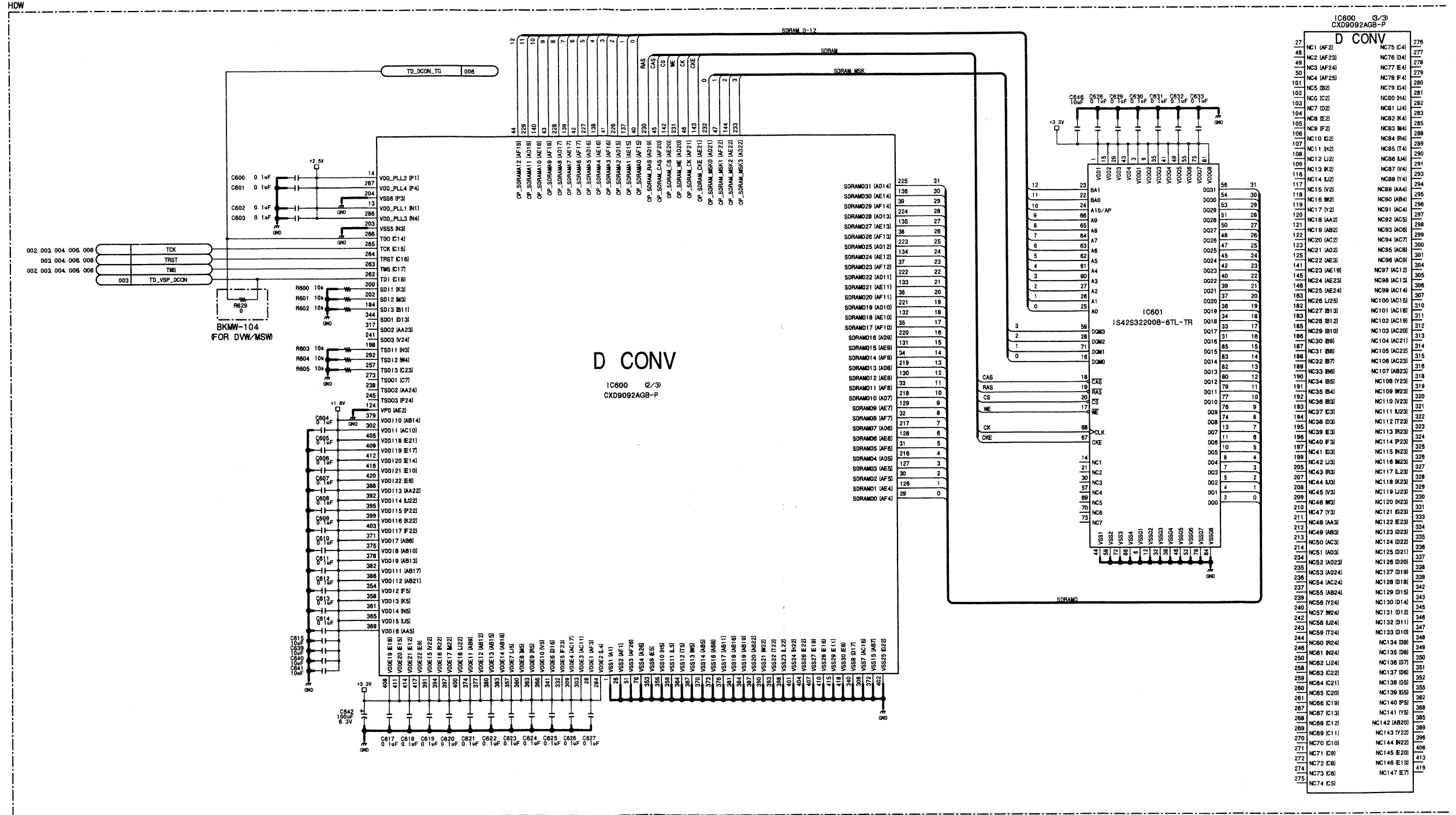
LOT NO. 4C2- For HDW-D2000

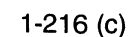
LOT NO. 462- For HDW-S2000/P

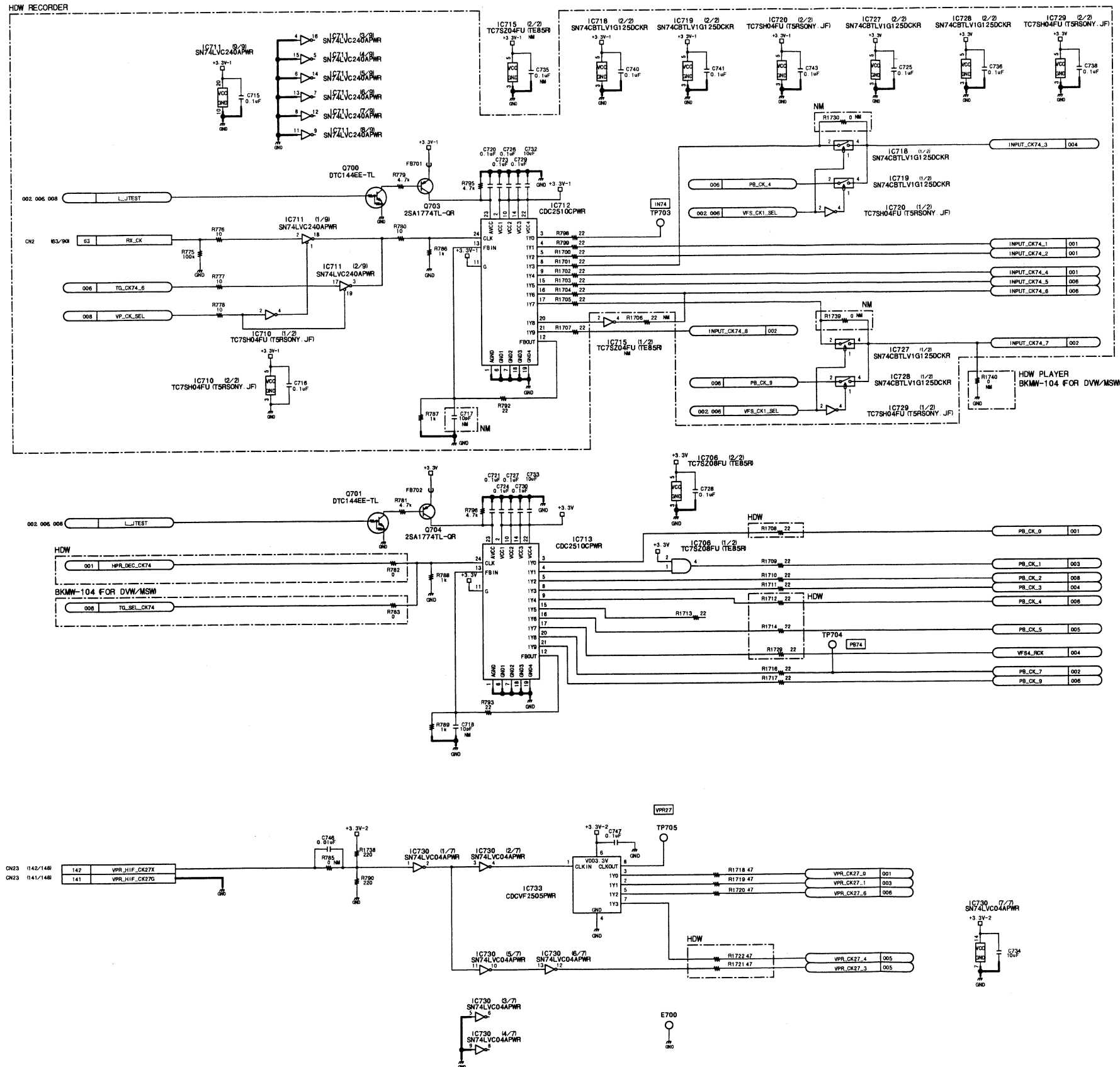
HIF-1A: LOT NO. 3C1- For HDW-M2100/P, A2100

HIF-1B: LOT NO. 3C1- For BKMW-104 (Option for DVW/MSW)

HDW-A2100_HIF-1_24P_4







HD video signal processor (Video slow process, Video process down converter, Video process up converter)

HIF-1 (6/9)

BOARD NO. 1-679-847-24

HIF-1: LOT NO. 3C1- For HDW-2000, M2000/P

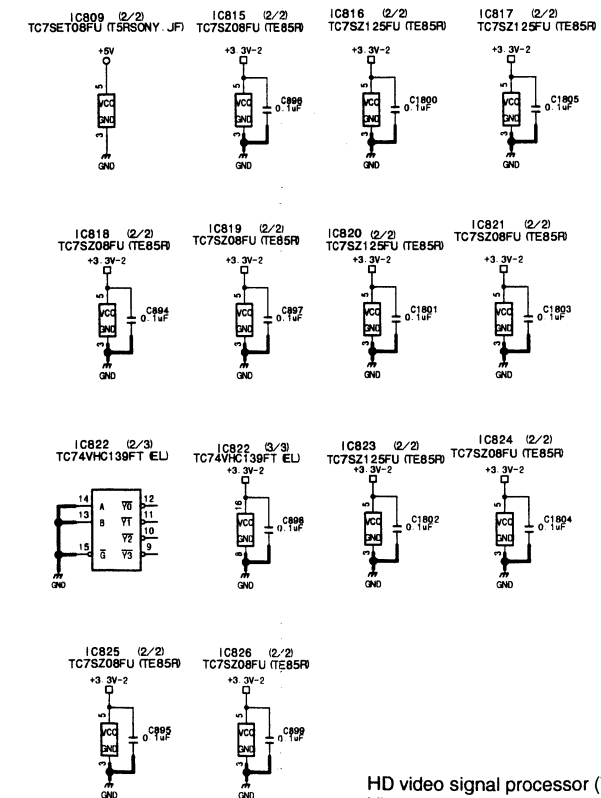
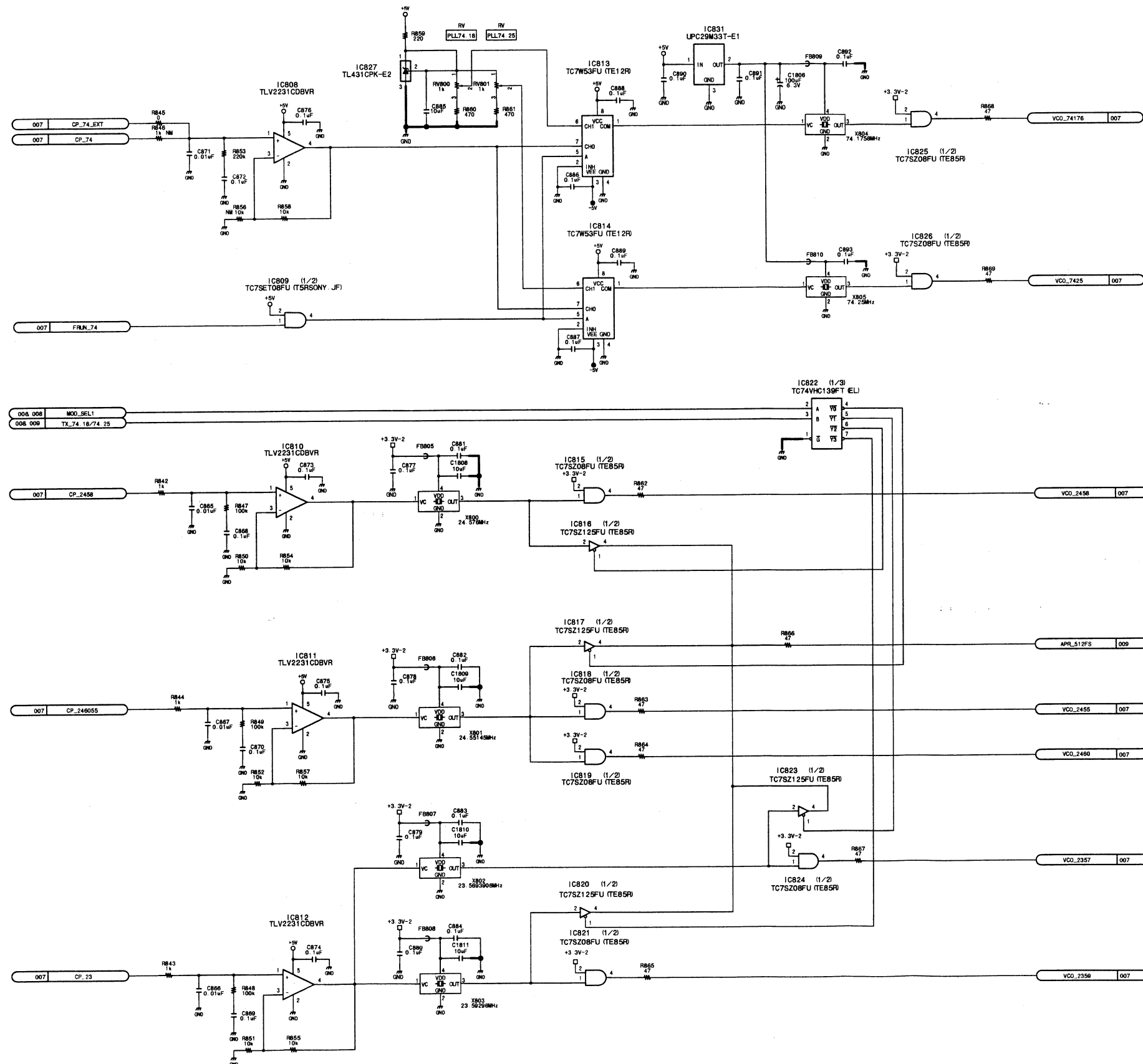
LOT NO. 4C2- For HDW-D2000

LOT NO. 462- For HDW-S2000/P

HIF-1A: LOT NO. 3C1- For HDW-M2100/P, A2100

HIF-1B: LOT NO. 3C1- For BKMW-104 (Option for DVW/MSW)

HDW-A2100_HIF-1_24P_6



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)

HIF-1 (7/9)

BOARD NO. 1-679-847-24

HIF-1: LOT NO. 3C1- For HDW-2000, M2000/P

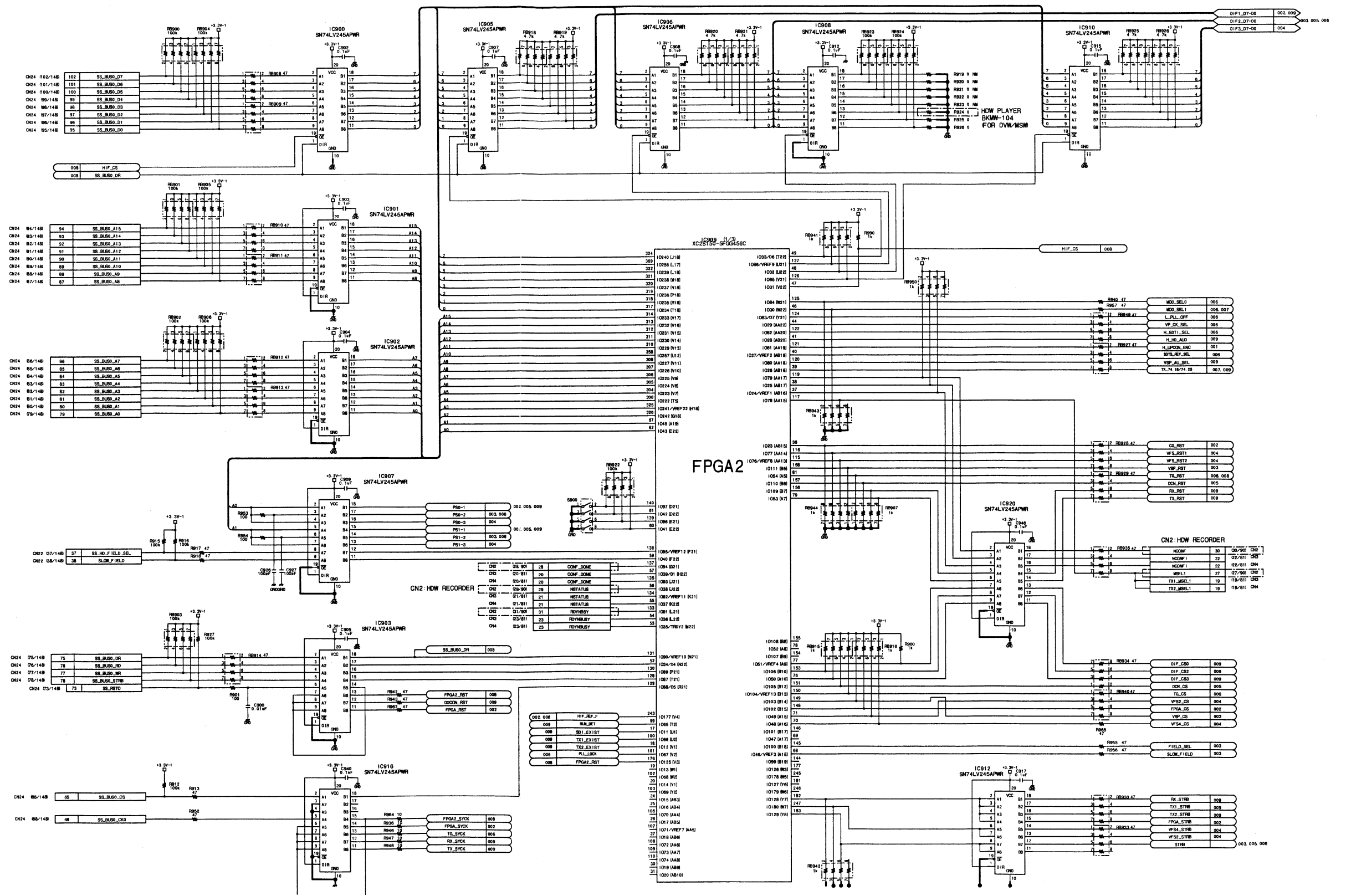
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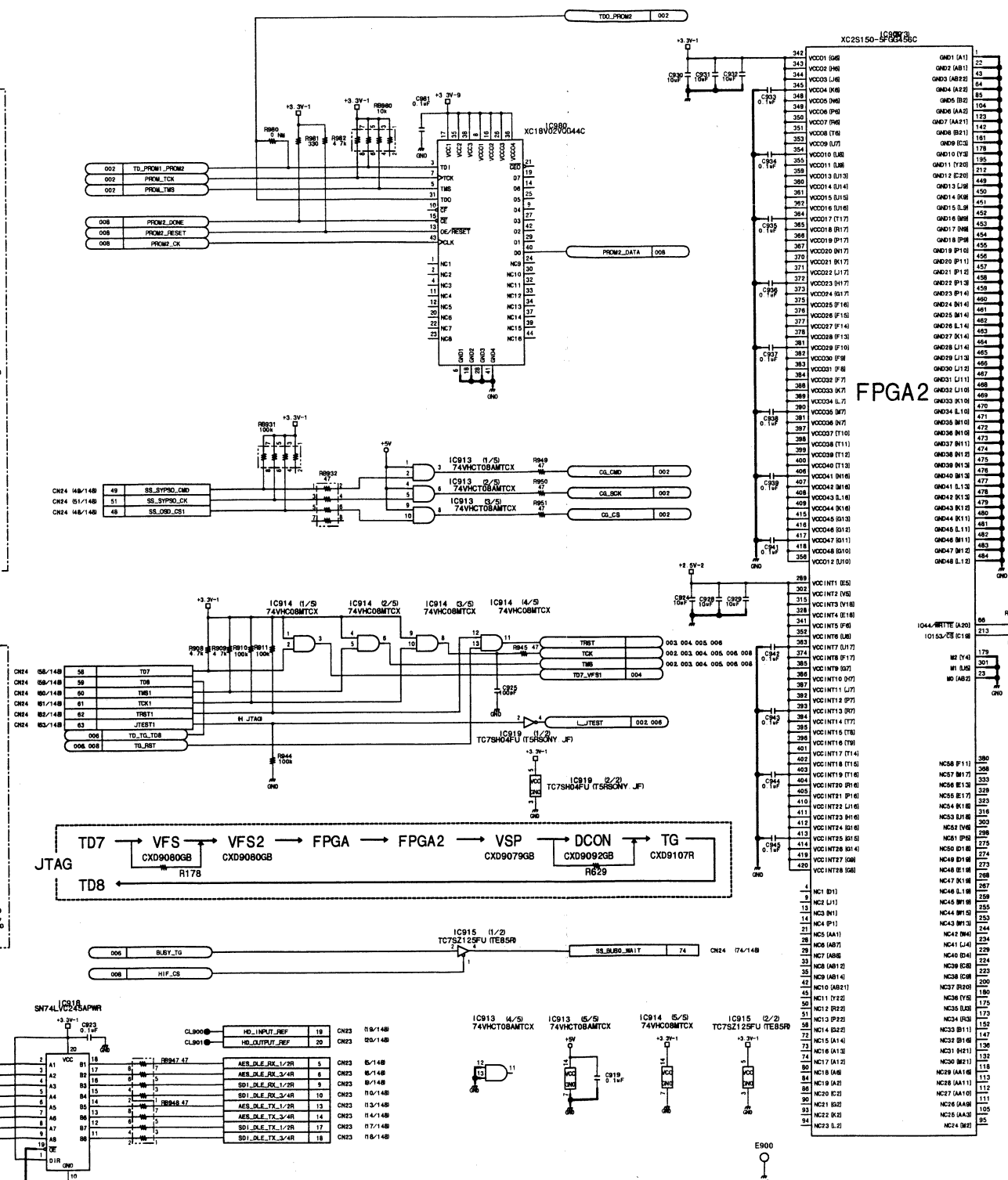
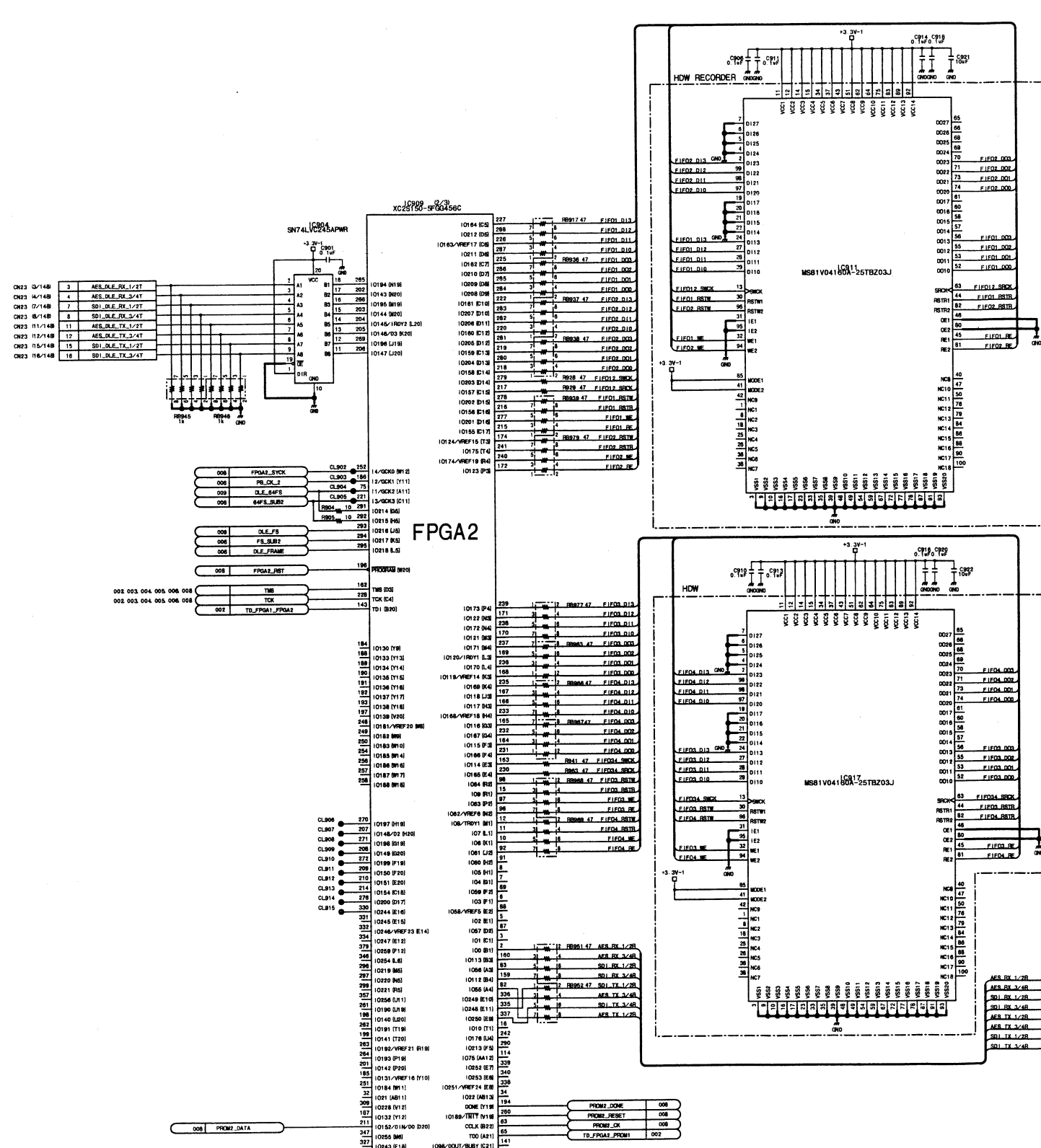
LOT NO. 462- For HDW-S2000/P

HIF-1A: LOT NO. 3C1- For HDW-M2100/P, A2100

HIF-1B: LOT NO. 3C1- For BKMW-104 (Option for DVW/MSW)

HDW-A2100_HIF-1_24P_7





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)

HIF-1 (8/9)

BOARD NO. 1-679-847-24

HIF-1: LOT NO. 3C1- For HDW-2000, M2000/P

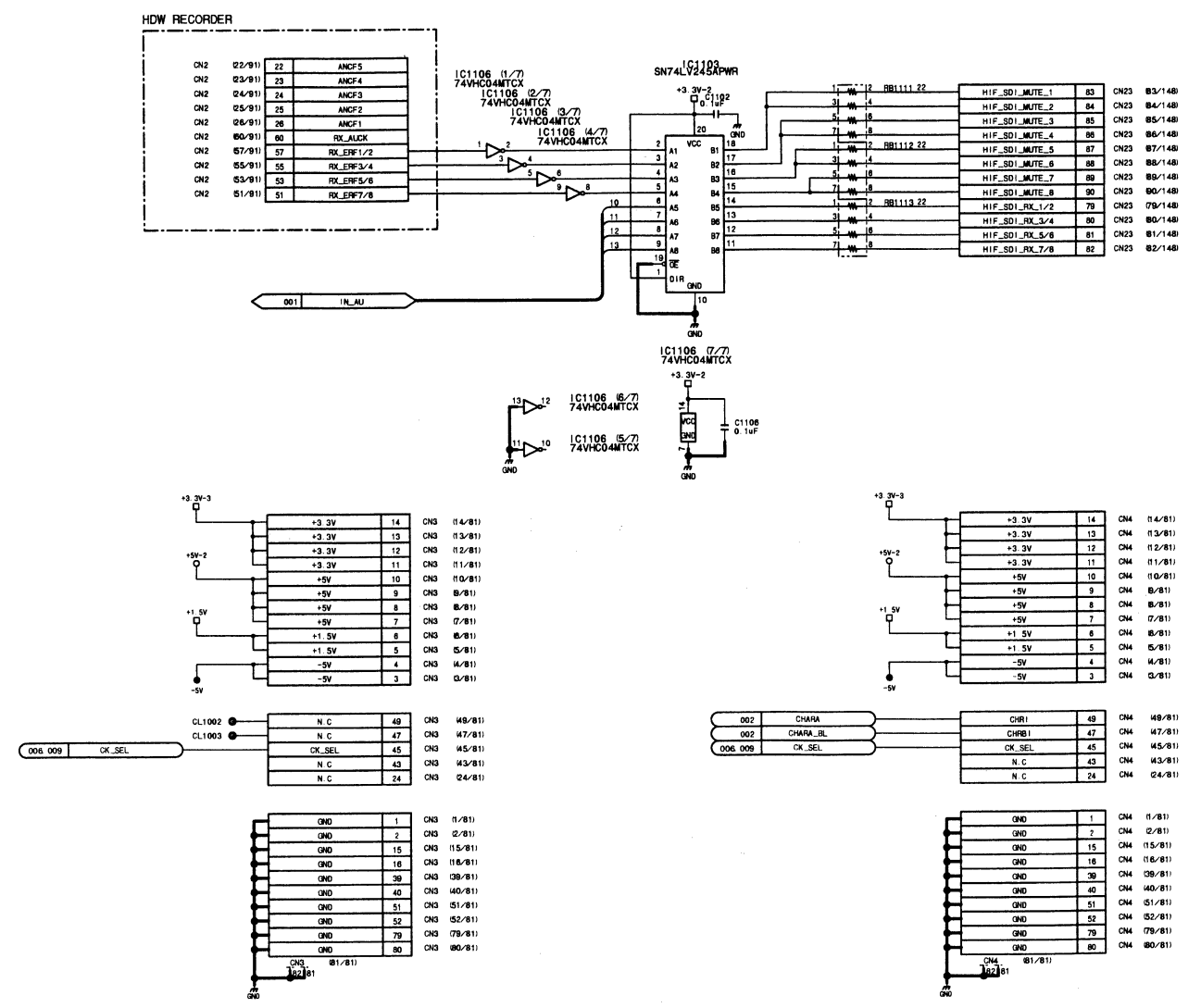
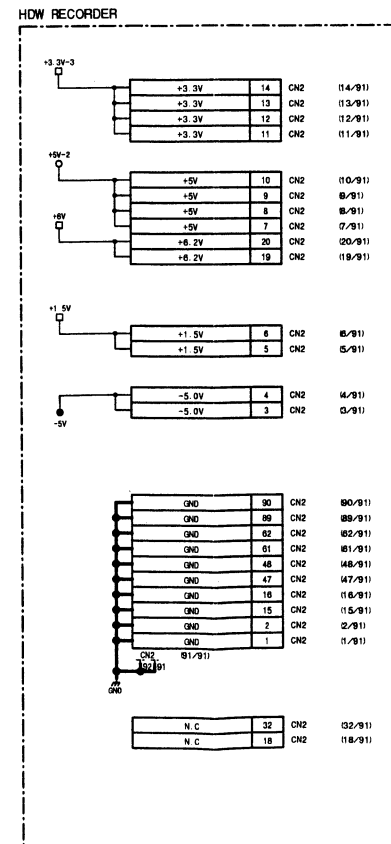
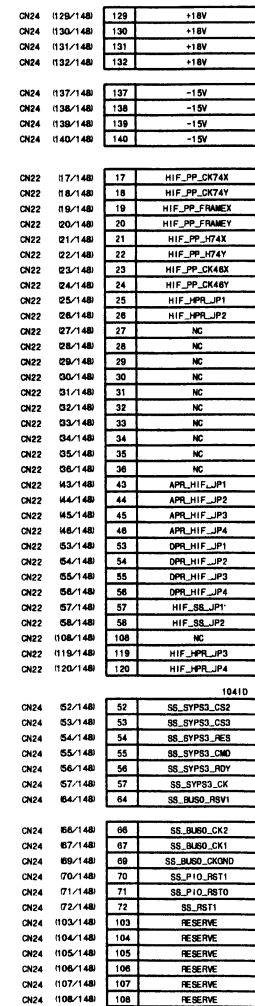
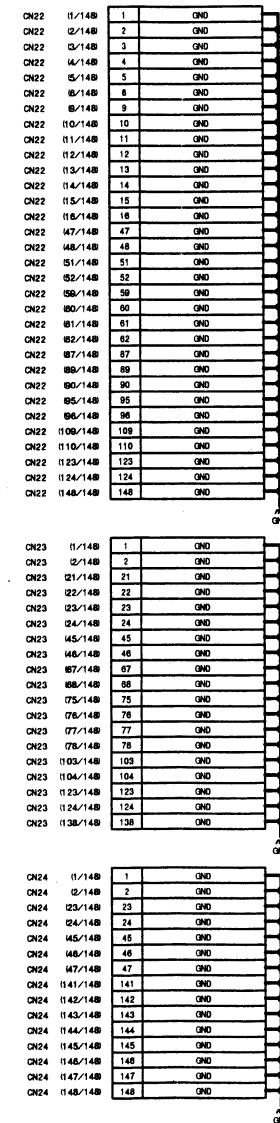
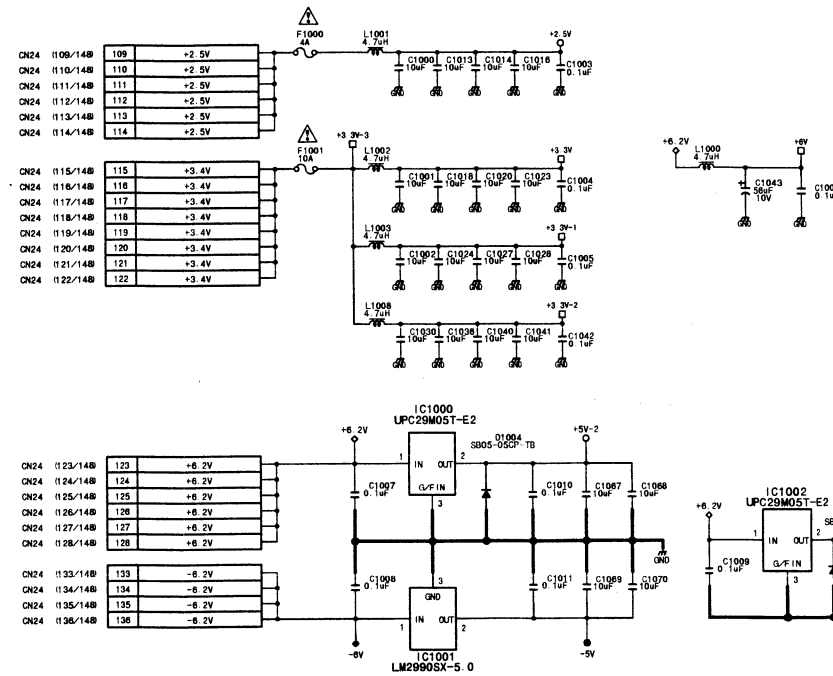
LOT NO. 4C2- For HDW-D2000

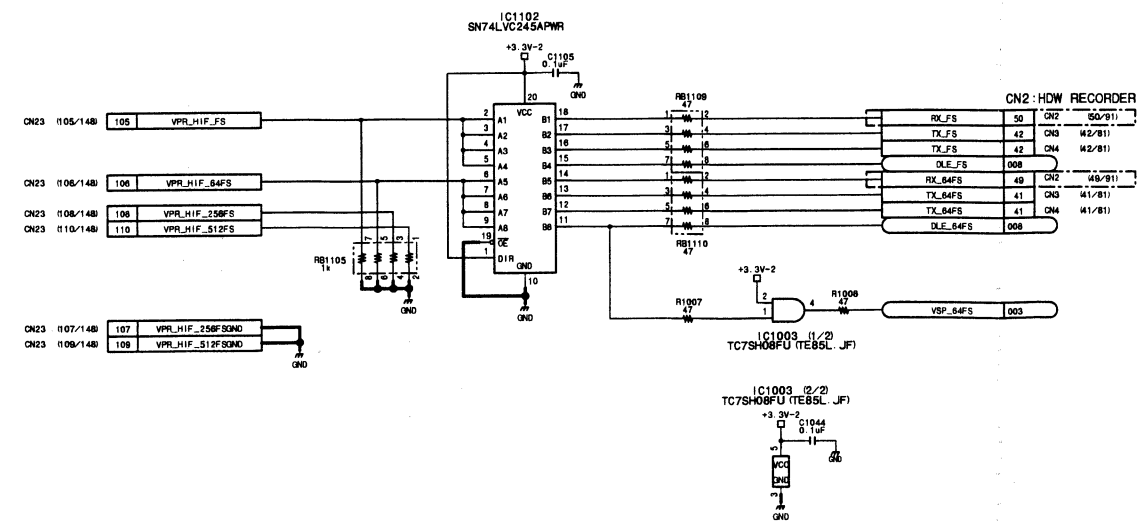
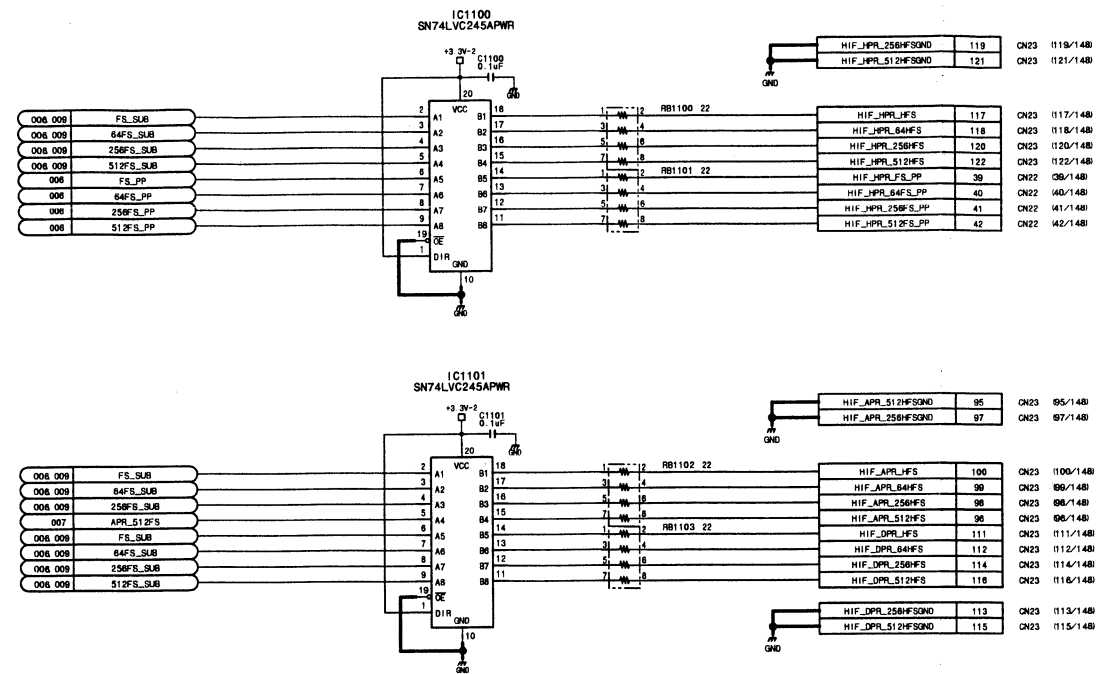
LOT NO. 462- For HDW-S2000/P

HIF-1A: LOT NO. 3C1- For HDW-M2100/P, A2100

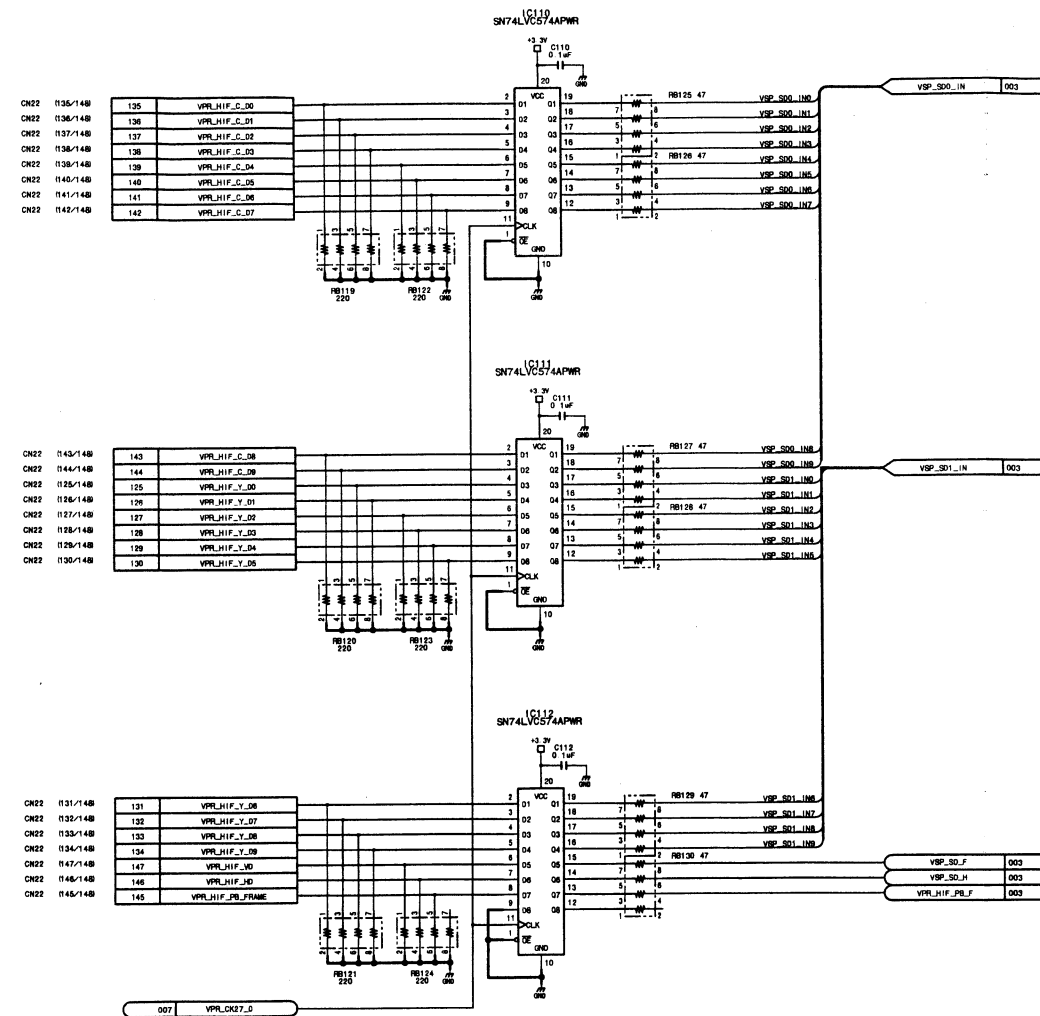
HIF-1B: LOT NO. 3C1- For BKMW-104 (Option for DVW/MSW)

HDW-A2100_HIF-1_24P_8

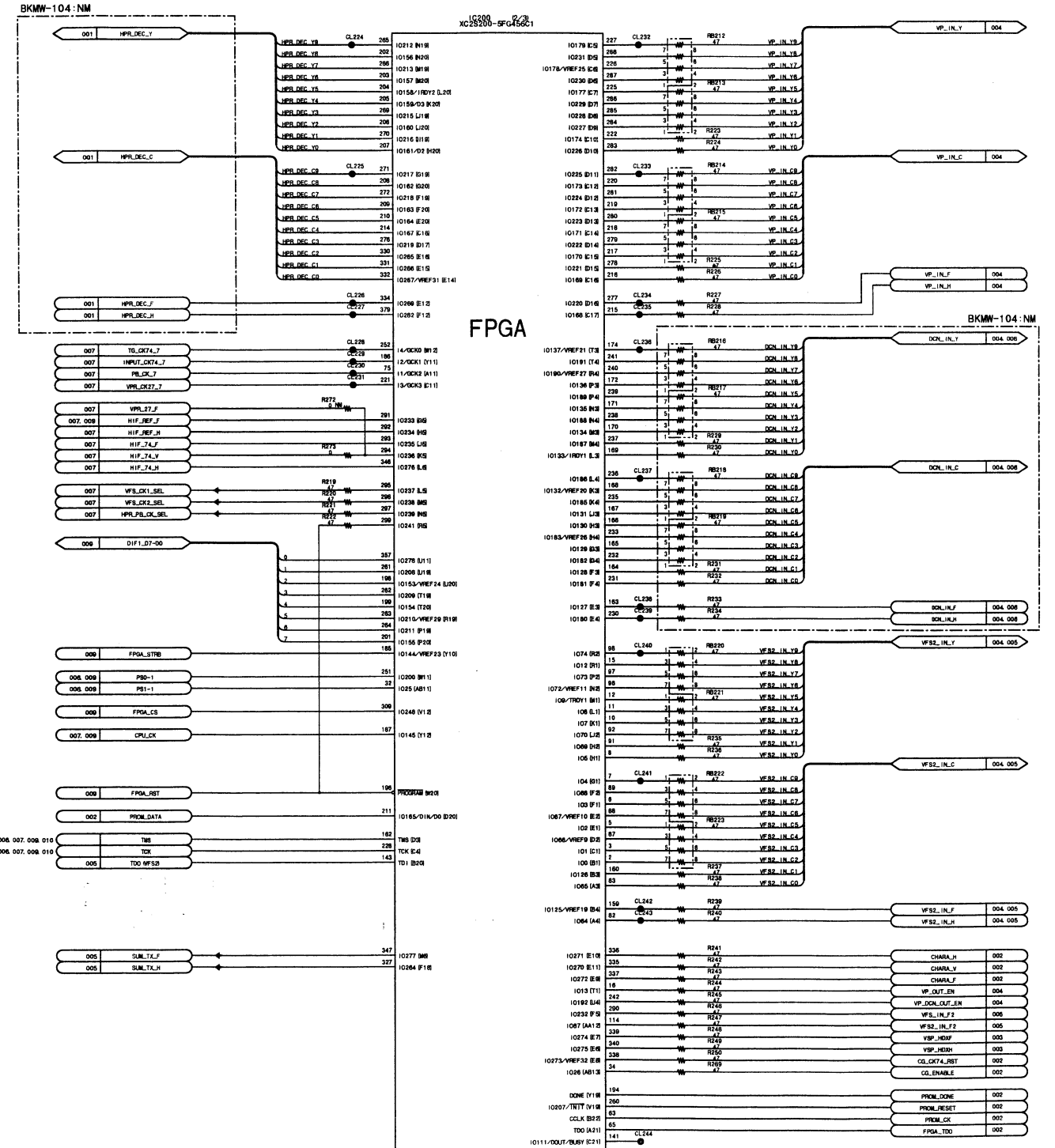
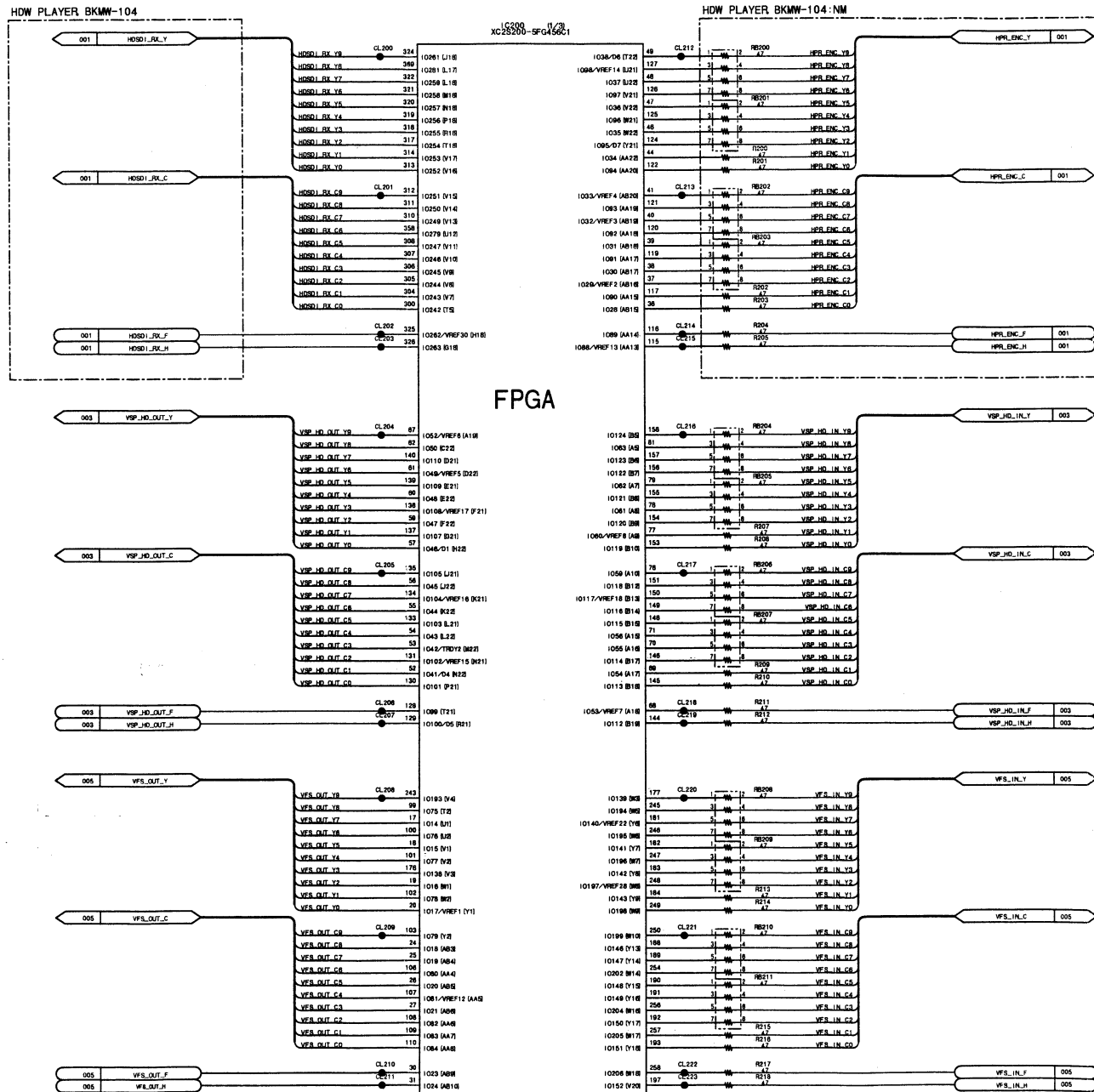


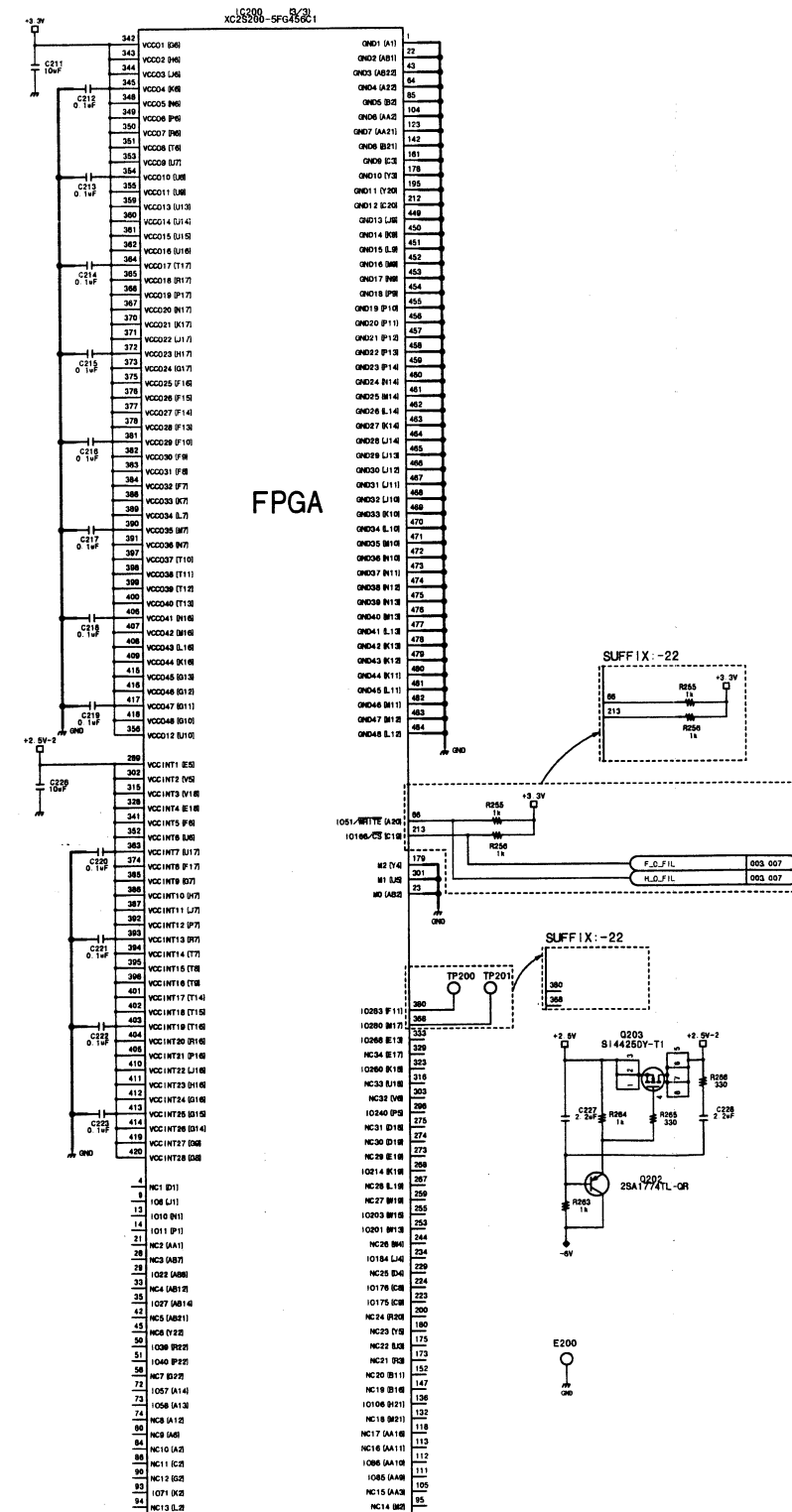
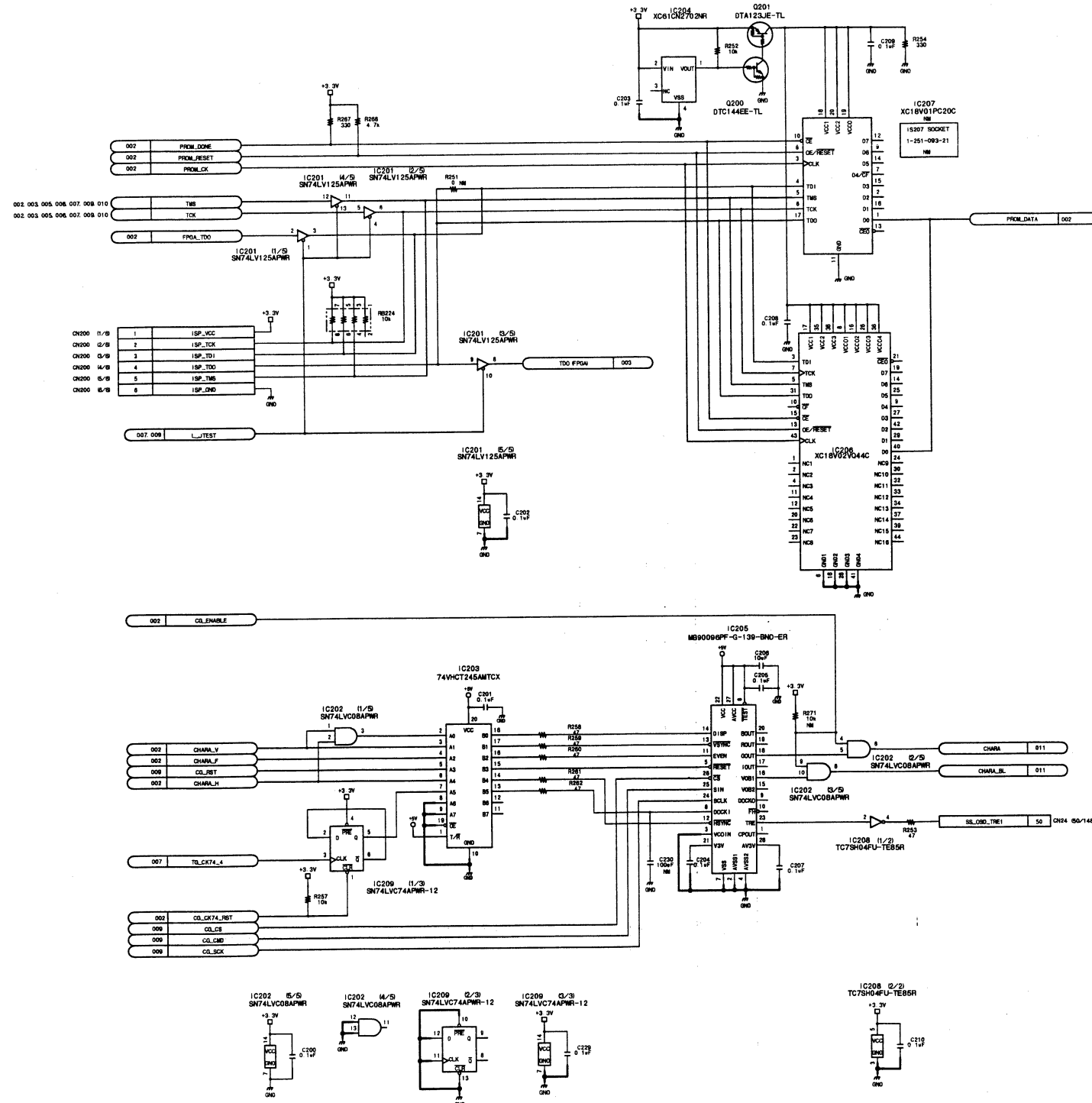


HDW-A2100_HIF-1_24P_9

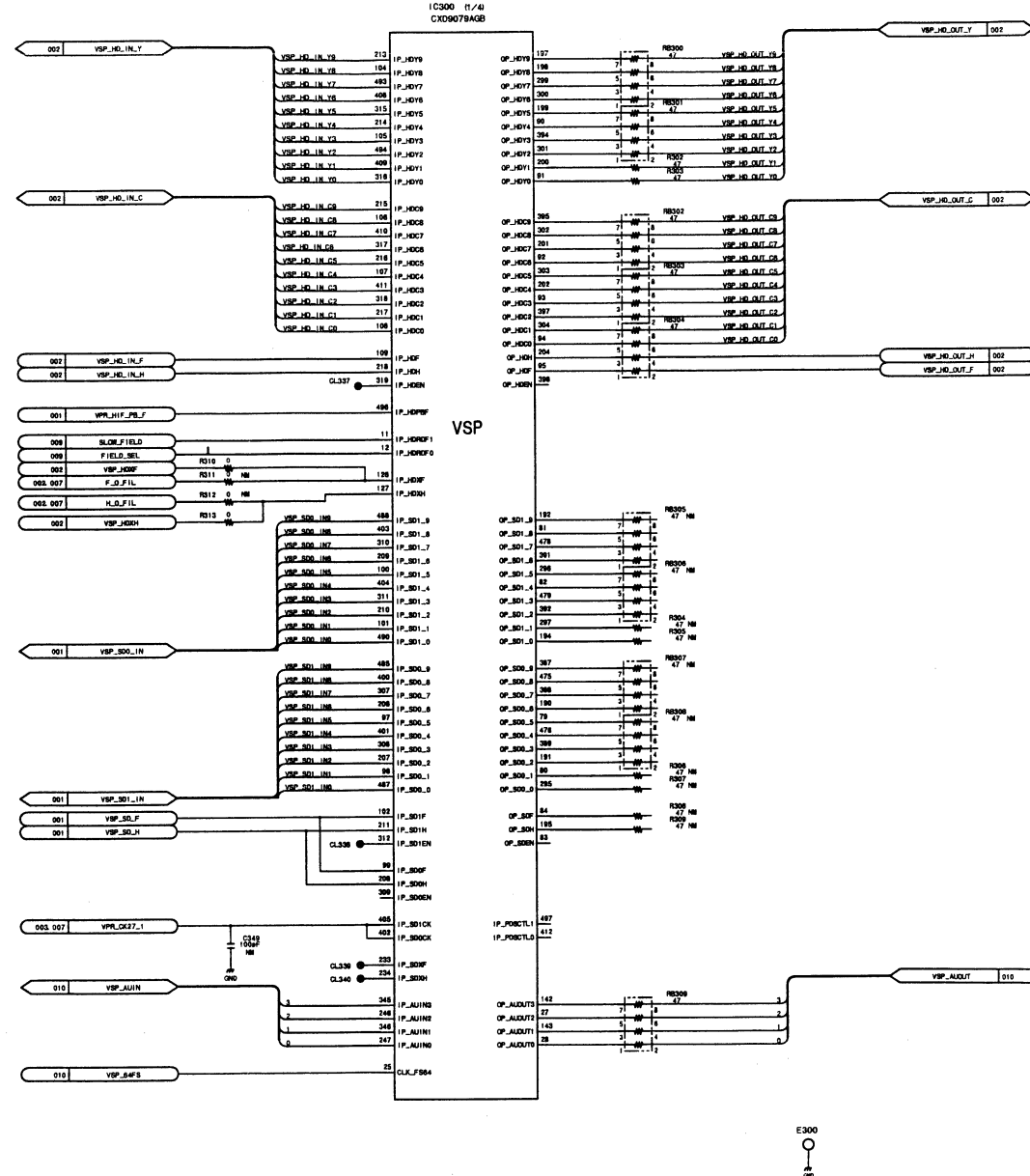
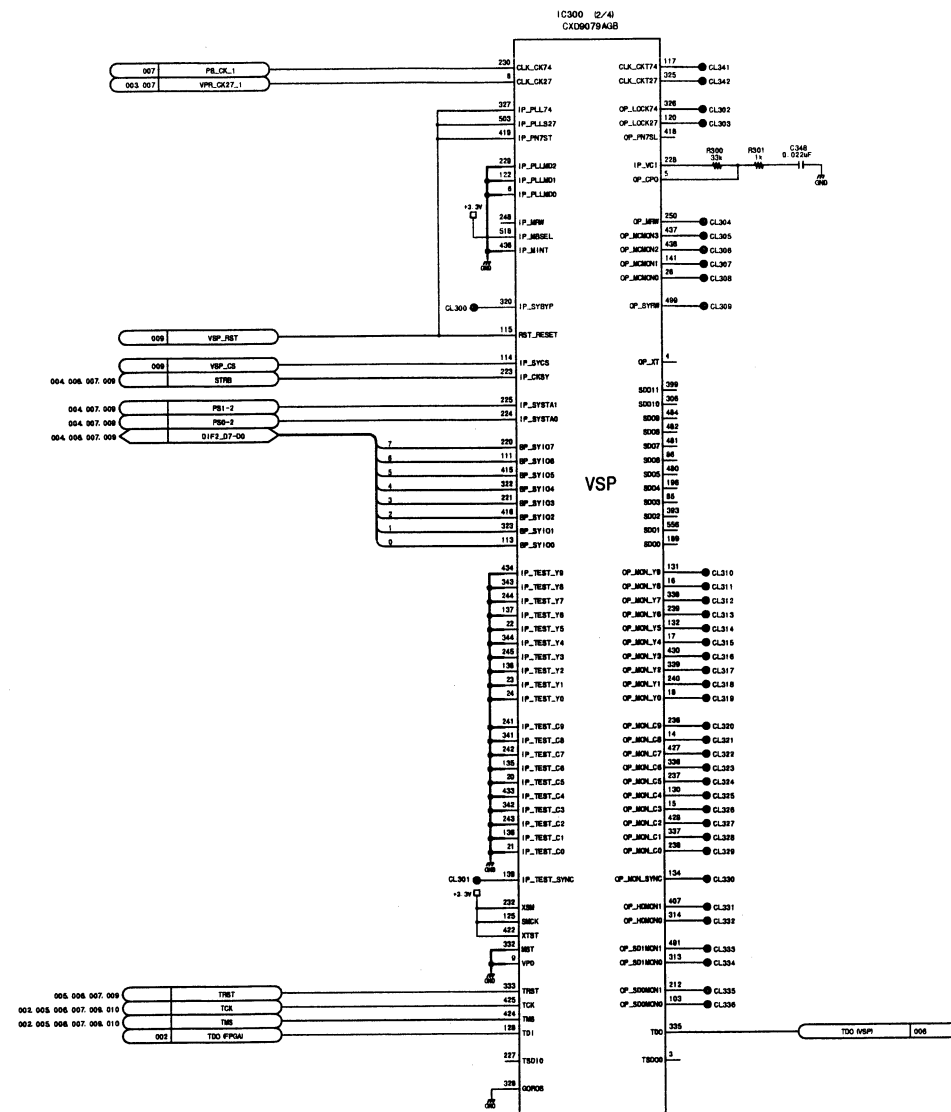


HDW series, DVW series, MSW series





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (2/11)
BOARD NO. 1-679-847-22, 23
HIF-1: LOT NO. 2B3-3B4 For HDW-2000, M2000/P
HIF-1A: LOT NO. 2B3-3B4 For HDW-M2100/P, A2100
HIF-1B: LOT NO. 2B3-3B4 For BKMW-104 (Option for MSW)
HDW-A2100_HIF-1_23P_2



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (3/11)
BOARD NO. 1-679-847-22, 23
HIF-1: LOT NO. 2B3-3B4 For HDW-2000, M2000/P
HIF-1A: LOT NO. 2B3-3B4 For HDW-M2100/P, A2100
HIF-1B: LOT NO. 2B3-3B4 For BKMW-104 (Option for MSW)
HDW-A2100_HIF-1_23P_3

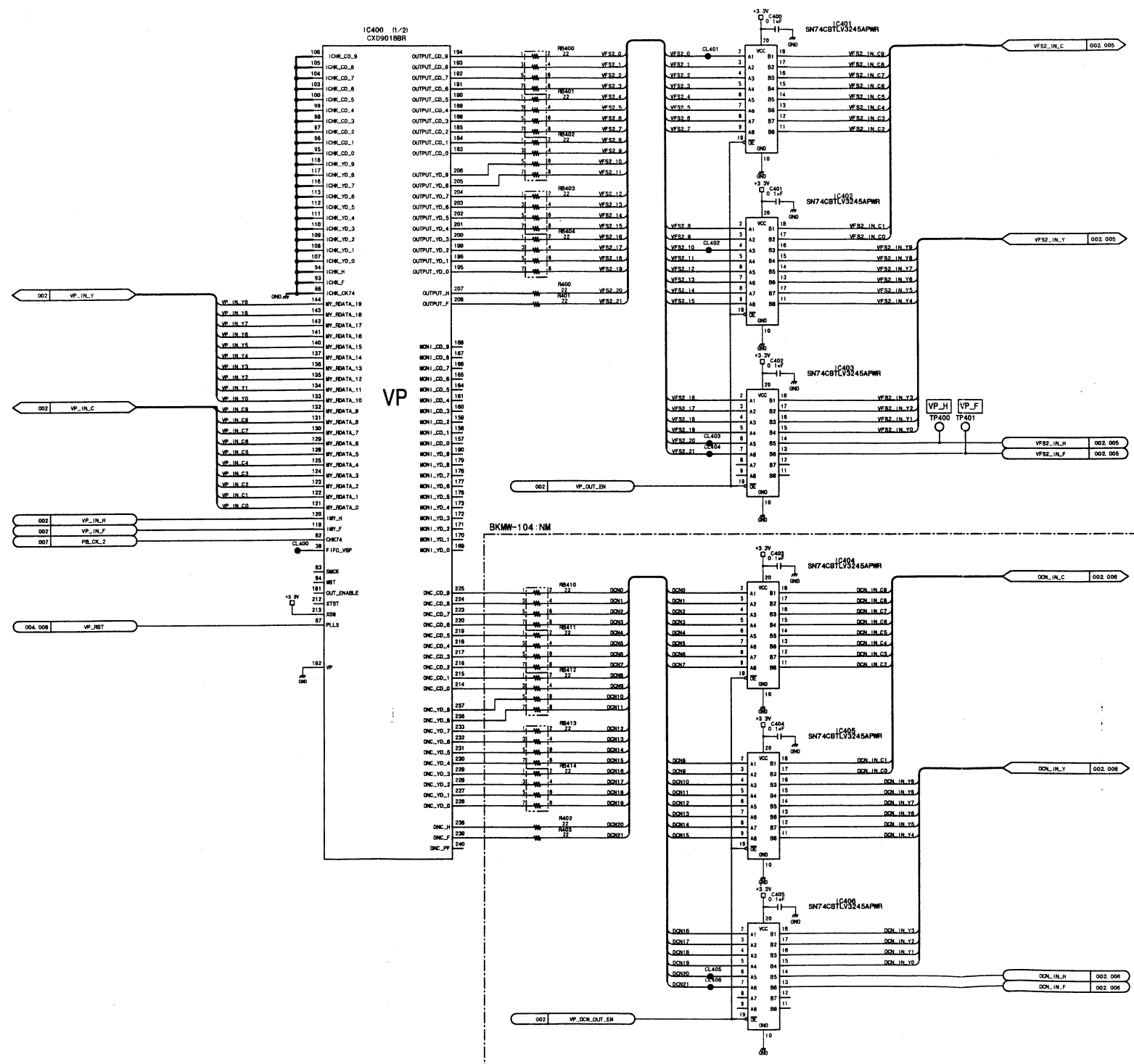
1

2

3

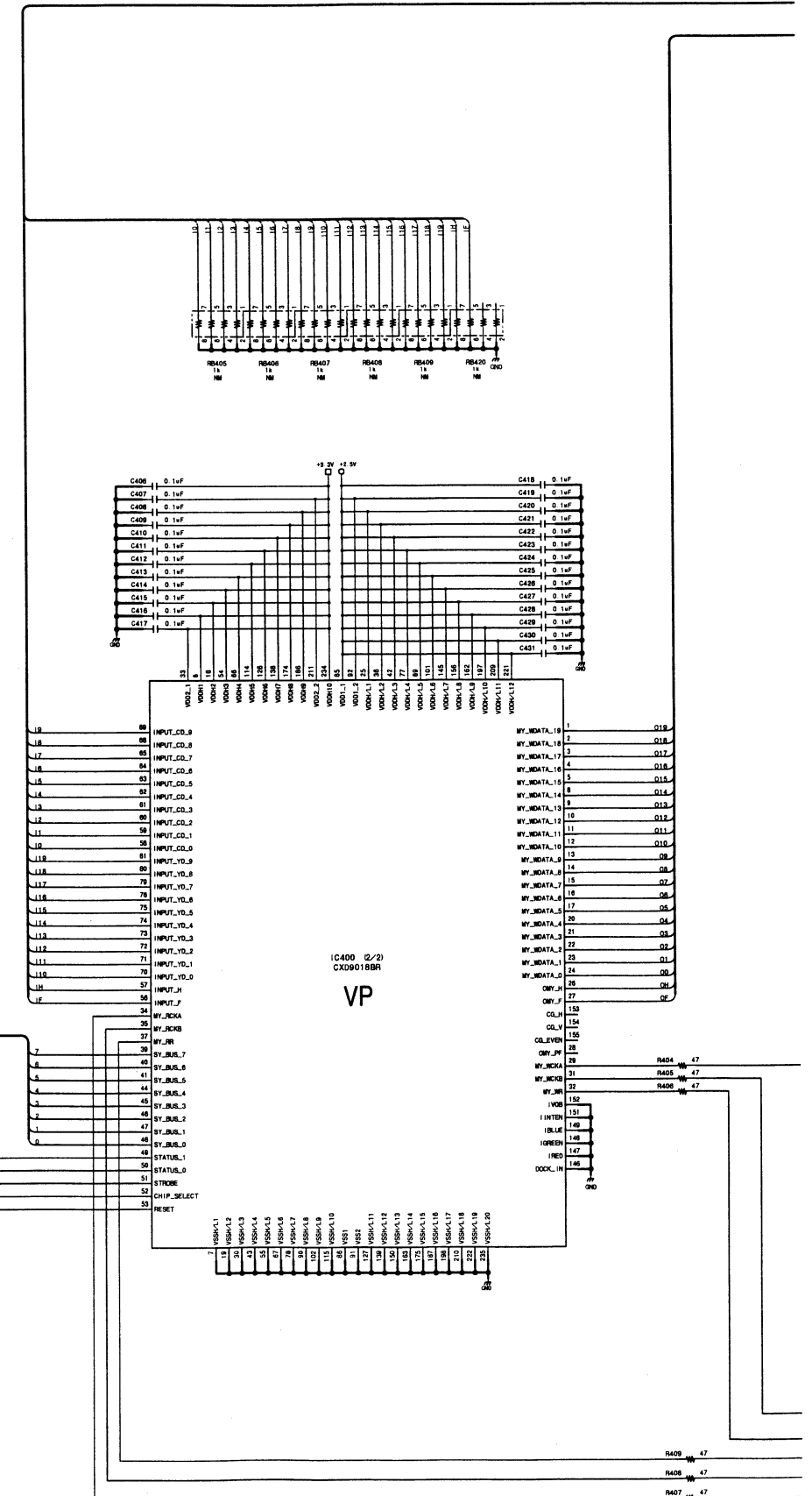
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5

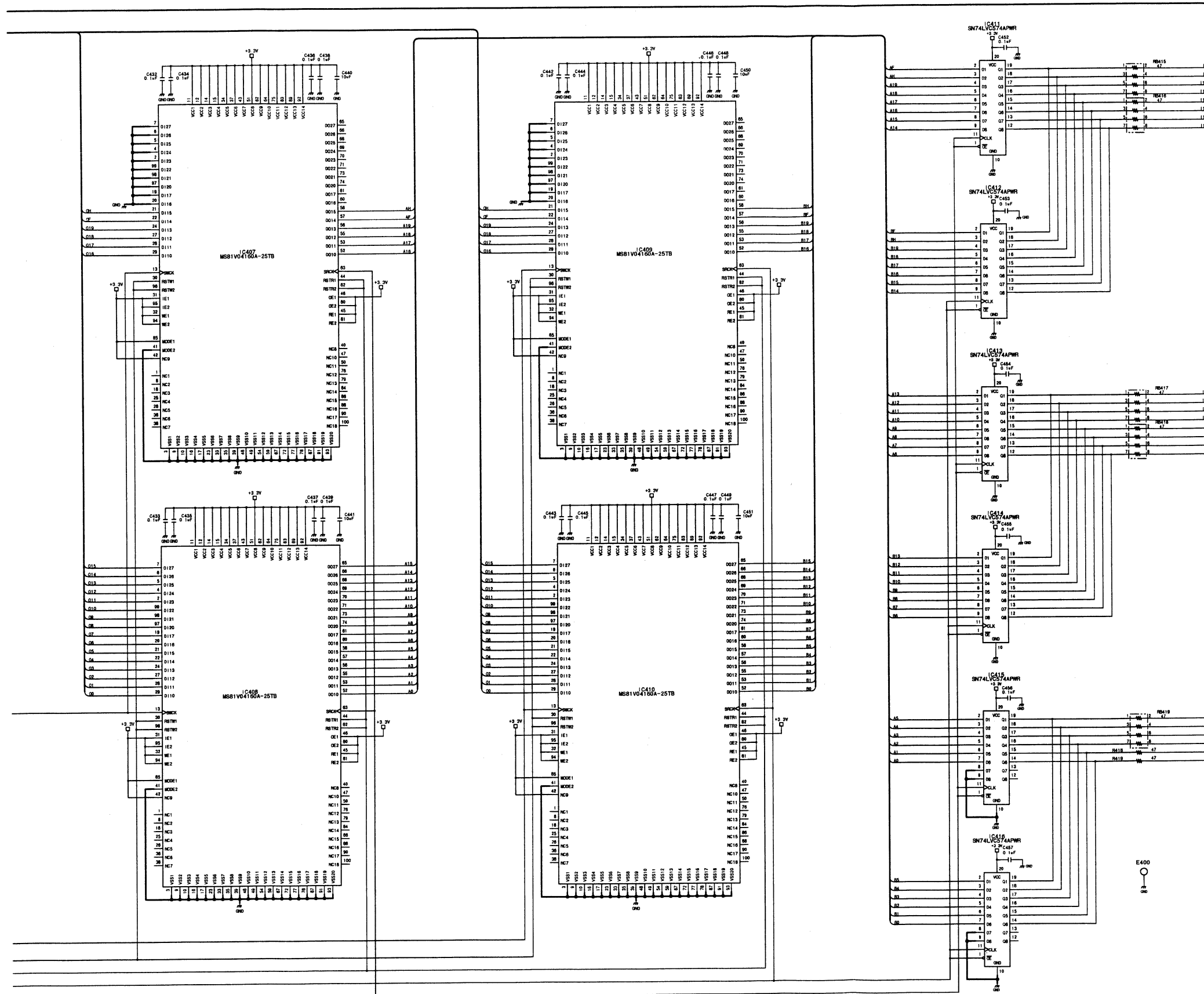


1-212 (b)

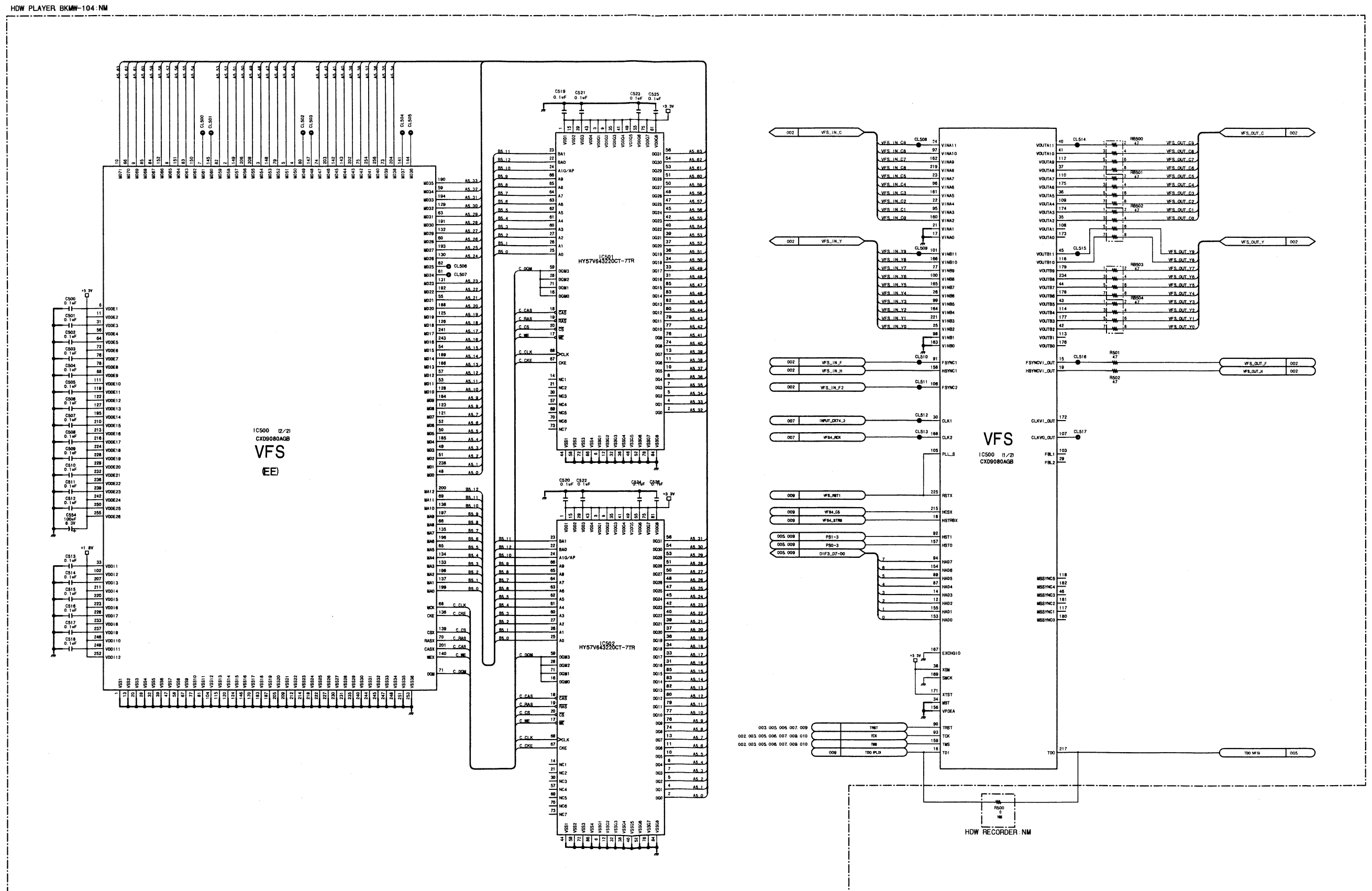
1-212 (b)

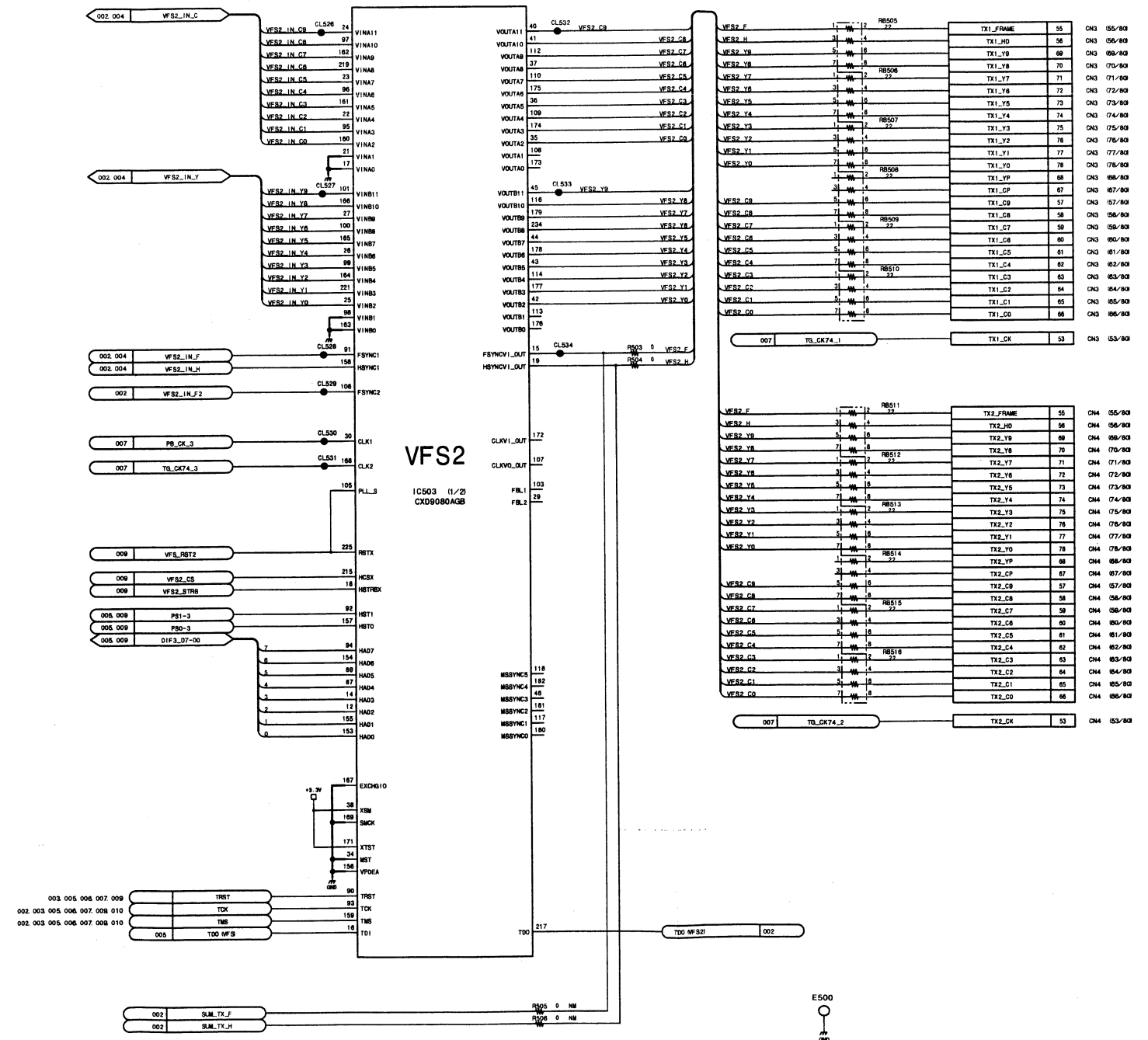
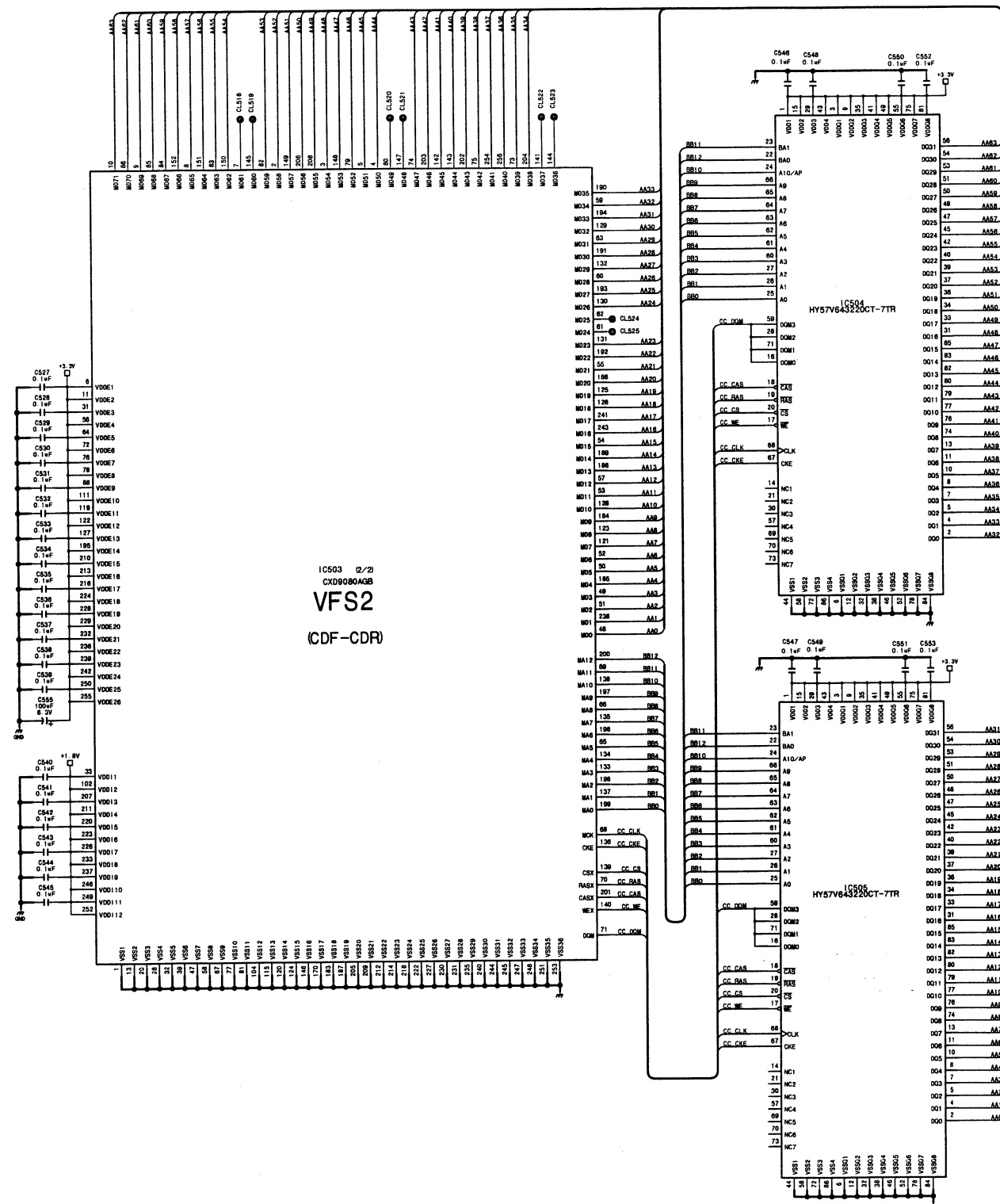


HDW series, DVW series, MSW series



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (4/11)
BOARD NO. 1-679-847-22, 23
HIF-1: LOT NO. 2B3-3B4 For HDW-2000, M2000/P
HIF-1A: LOT NO. 2B3-3B4 For HDW-M2100/P, A2100
HIF-1B: LOT NO. 2B3-3B4 For BKMW-104 (Option for MSW)
HDW-A2100_HIF-1_23P_4





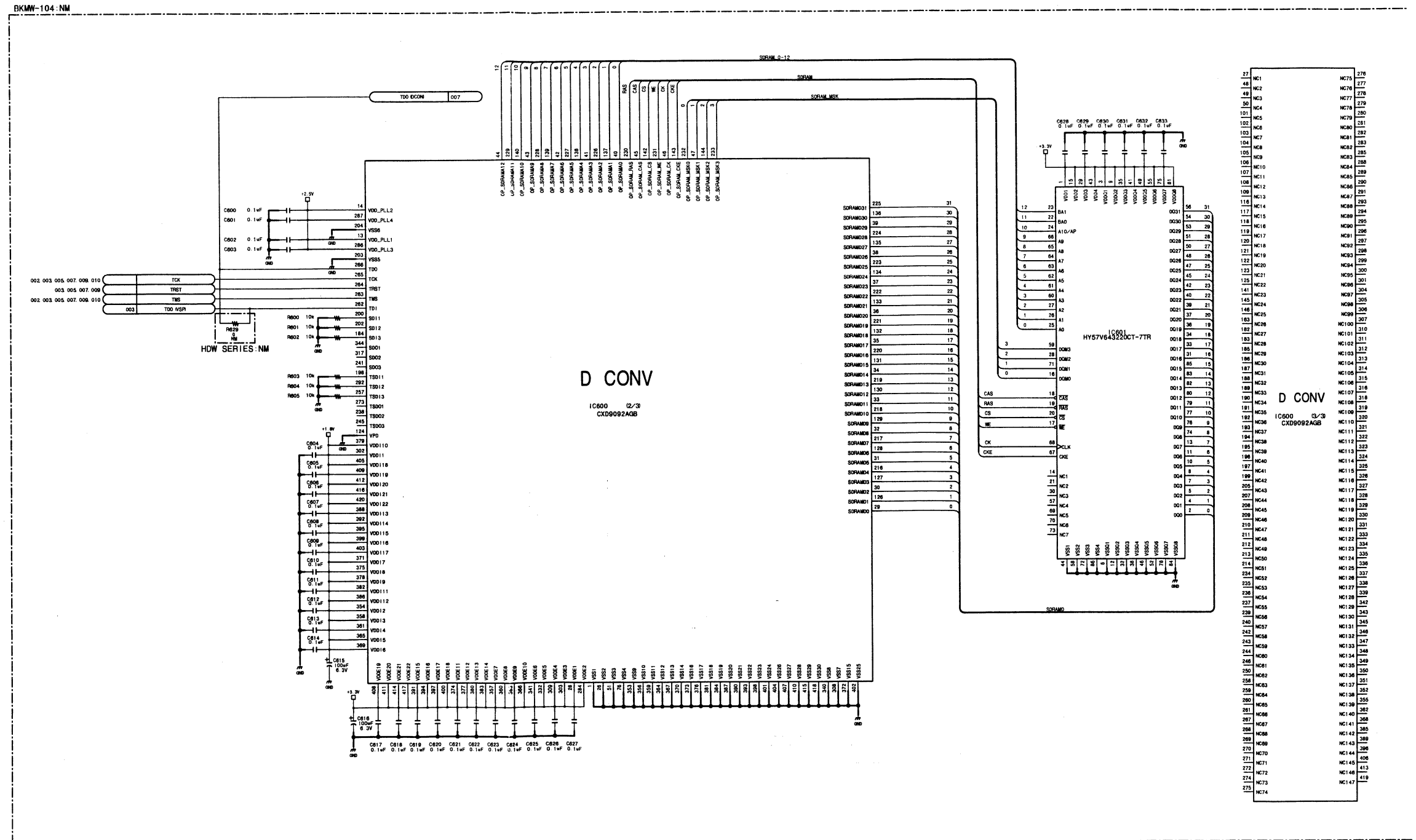
HD video signal processor (Video slow process,
Video process down converter, Video process up converter)

HIF-1 (5/11)

BOARD NO. 1-679-847-22, 23

HIF-1:	LOT NO. 2B3-3B4	For HDW-2000, M2000/P
HIF-1A:	LOT NO. 2B3-3B4	For HDW-M2100/P, A2100
HIF-1B:	LOT NO. 2B3-3B4	For BKMW-104 (Option for MSW)

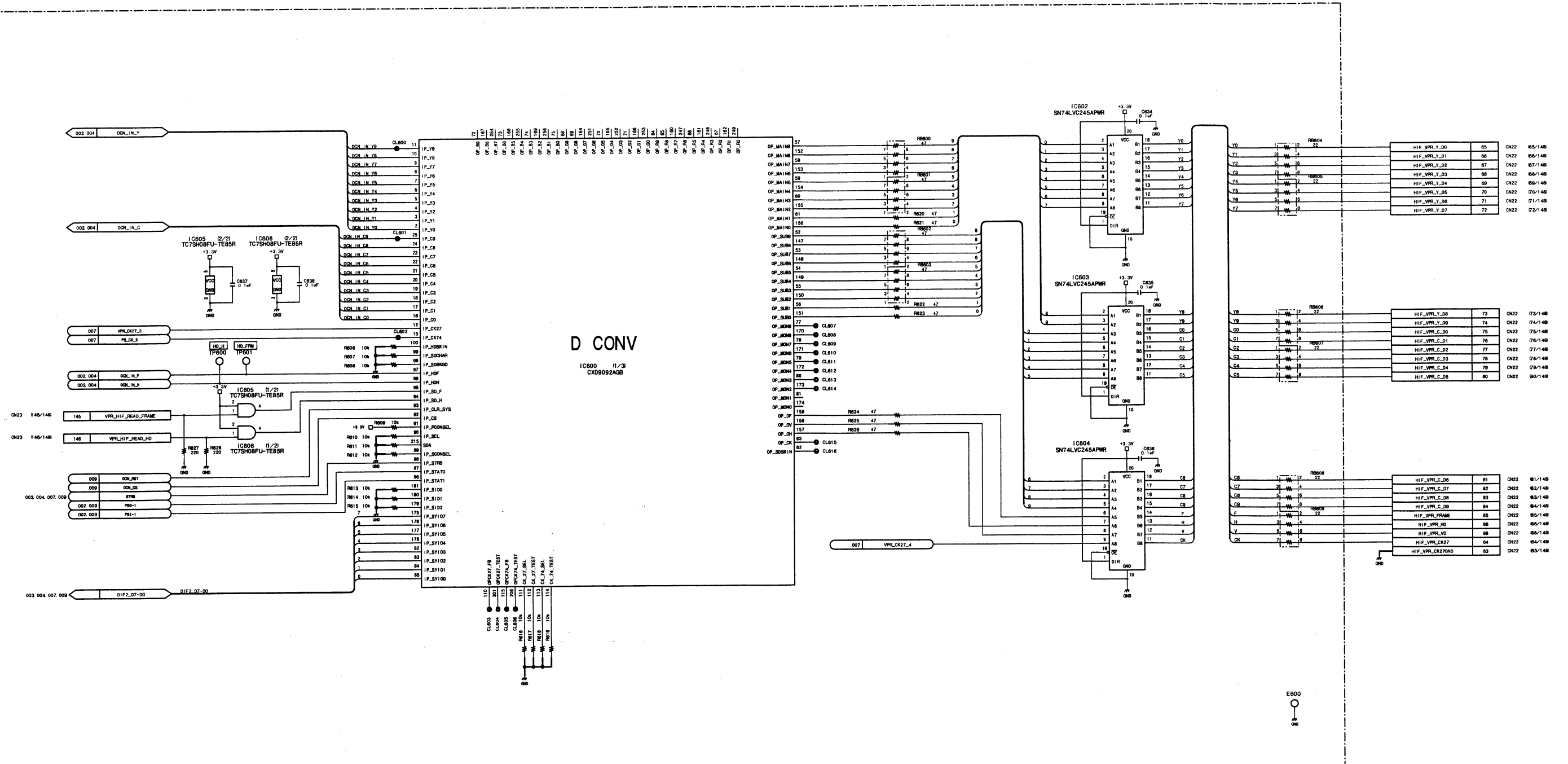
HDW-A2100_HIF-1_23P_5



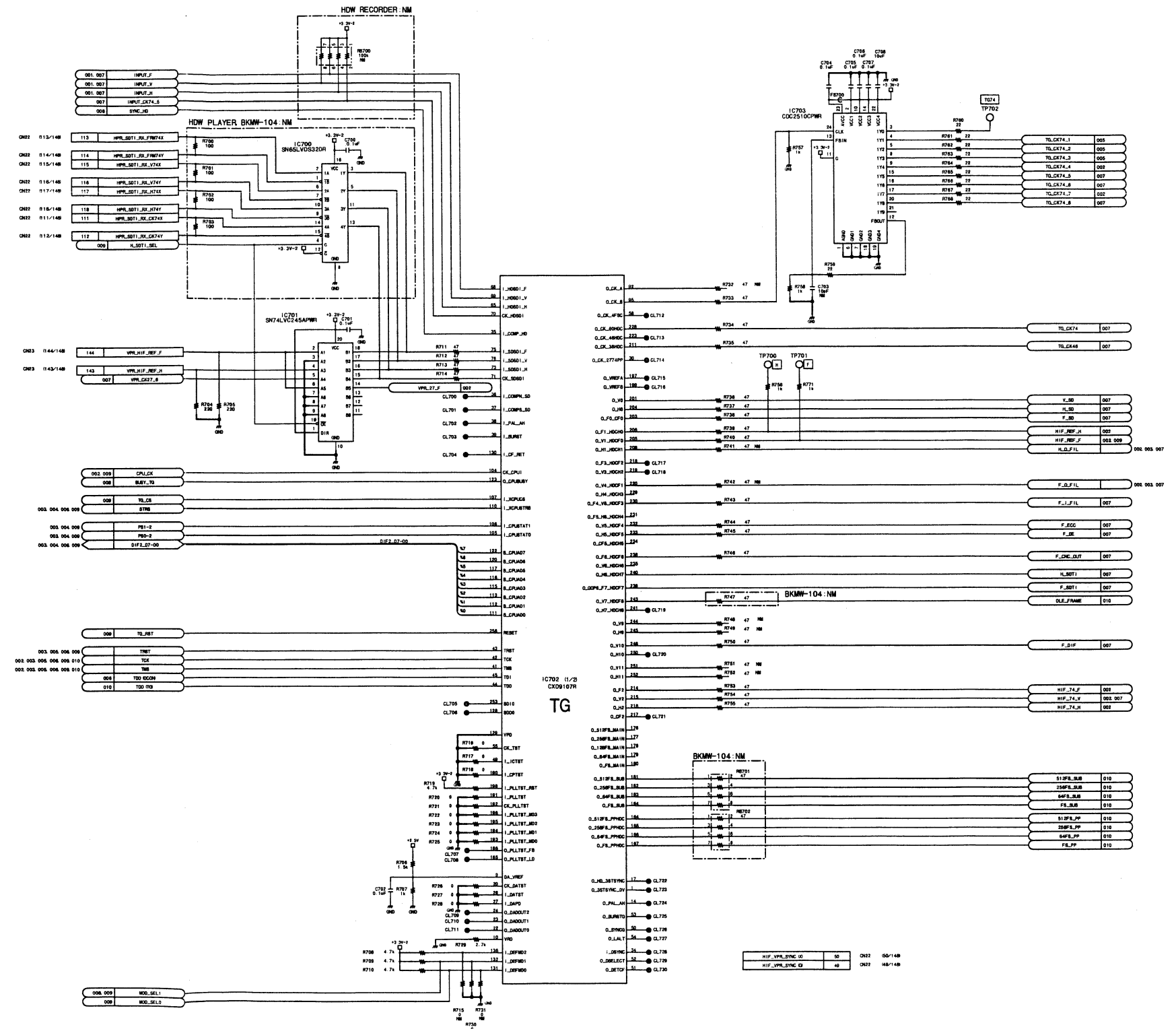
1-216 (b)

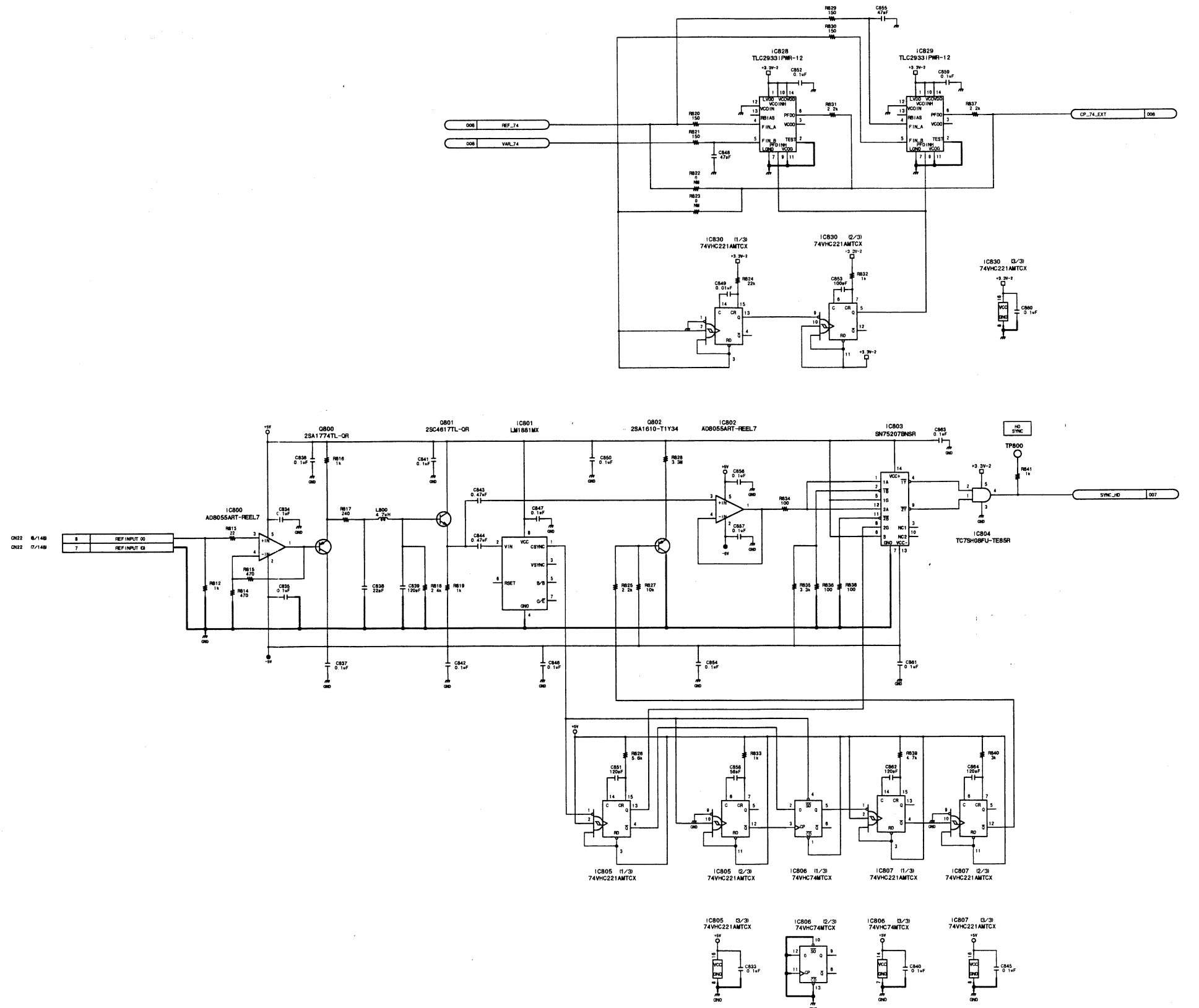
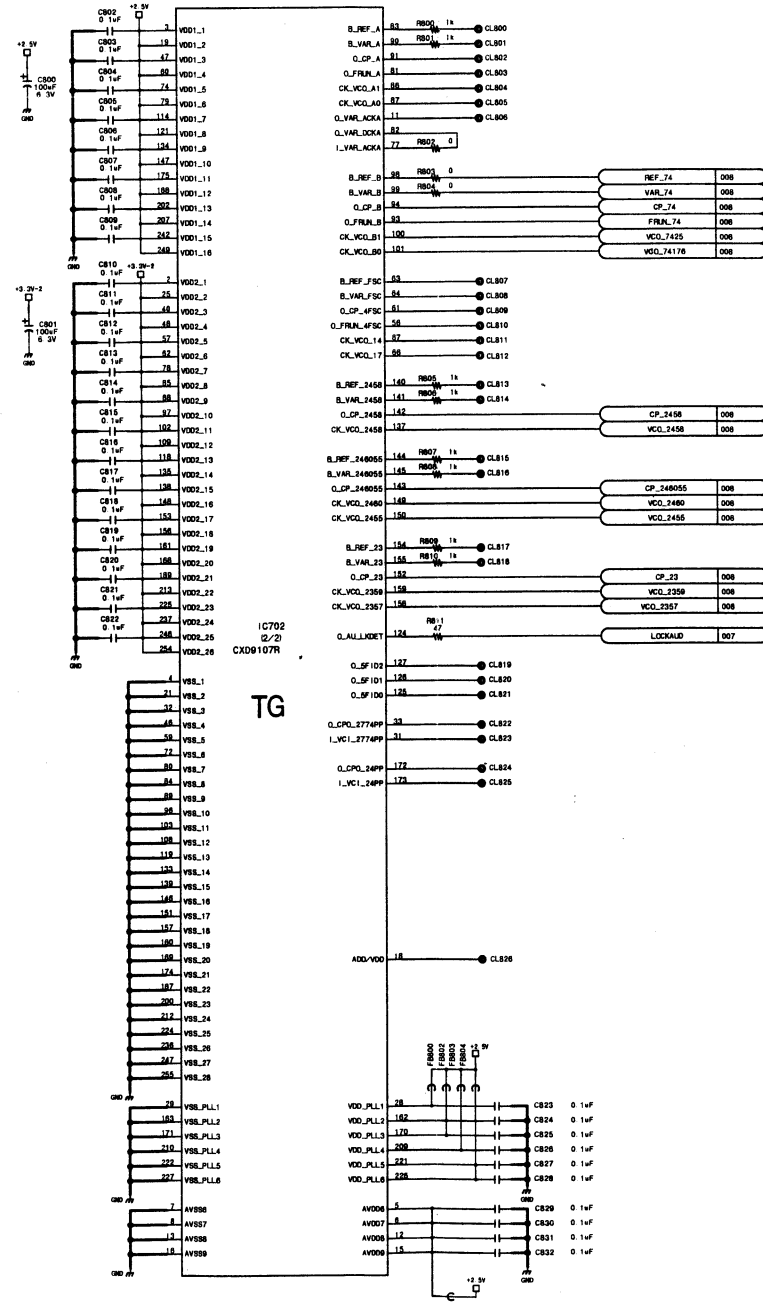
1-216 (b)

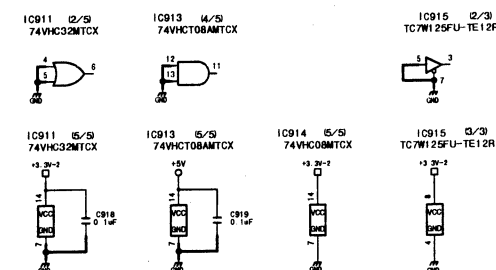
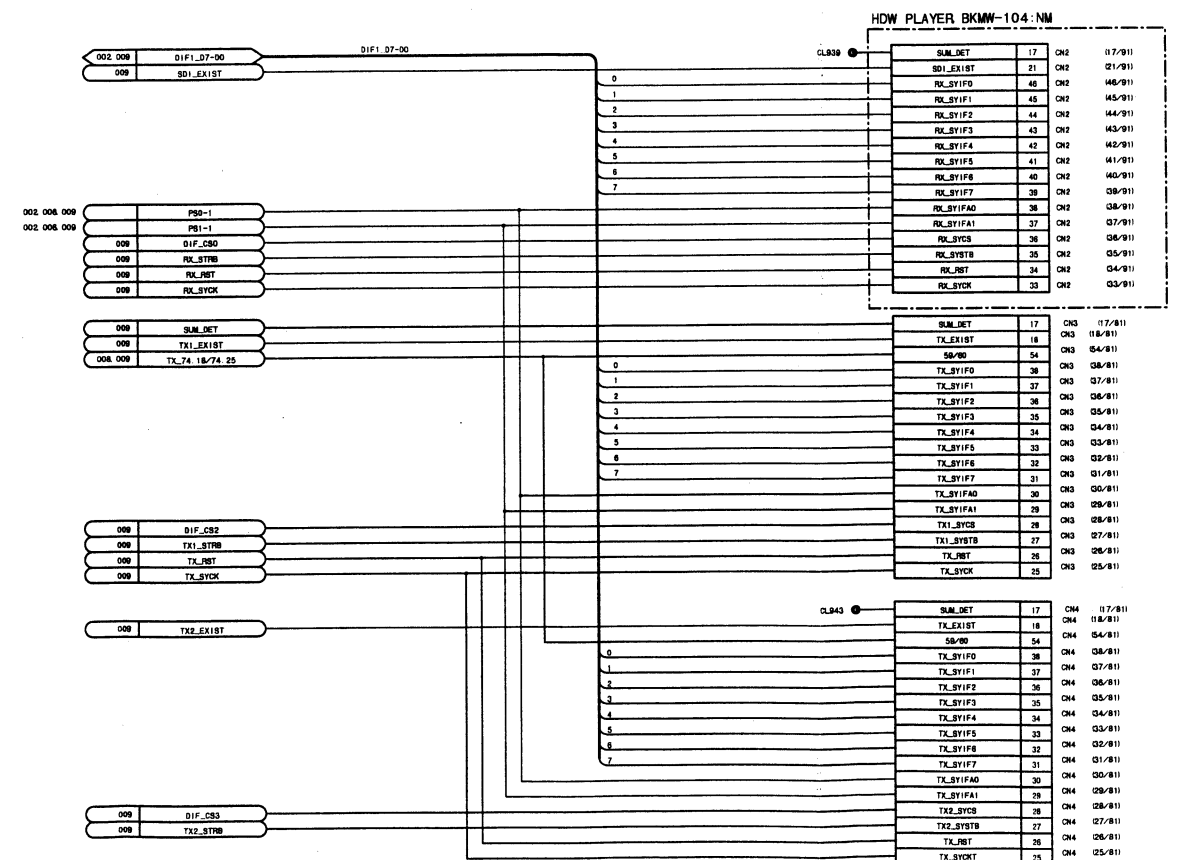
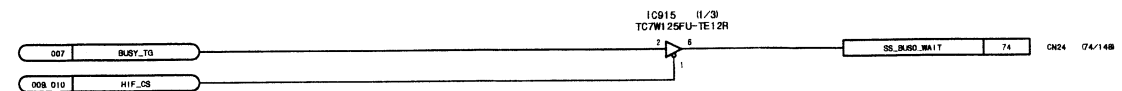
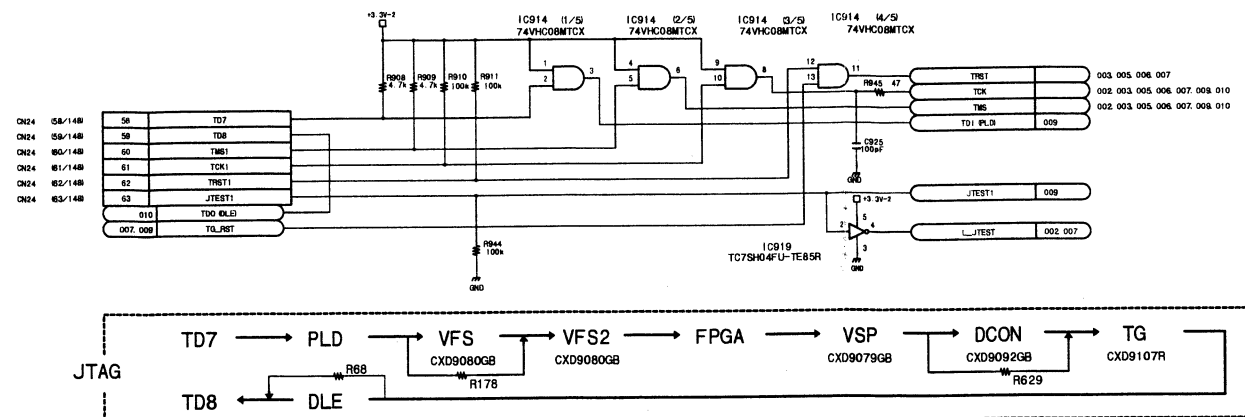
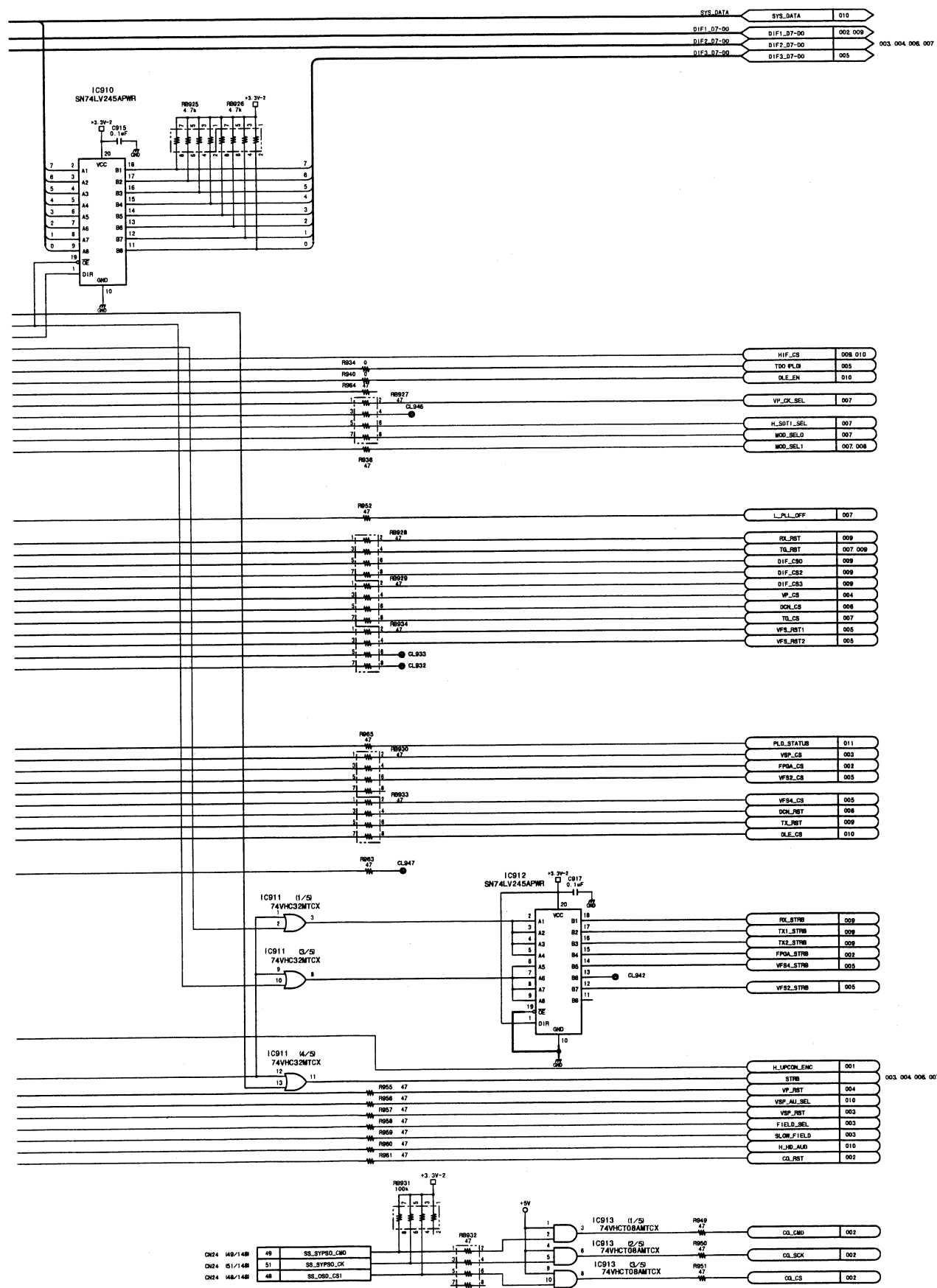
HDW series, DVW series, MSW series



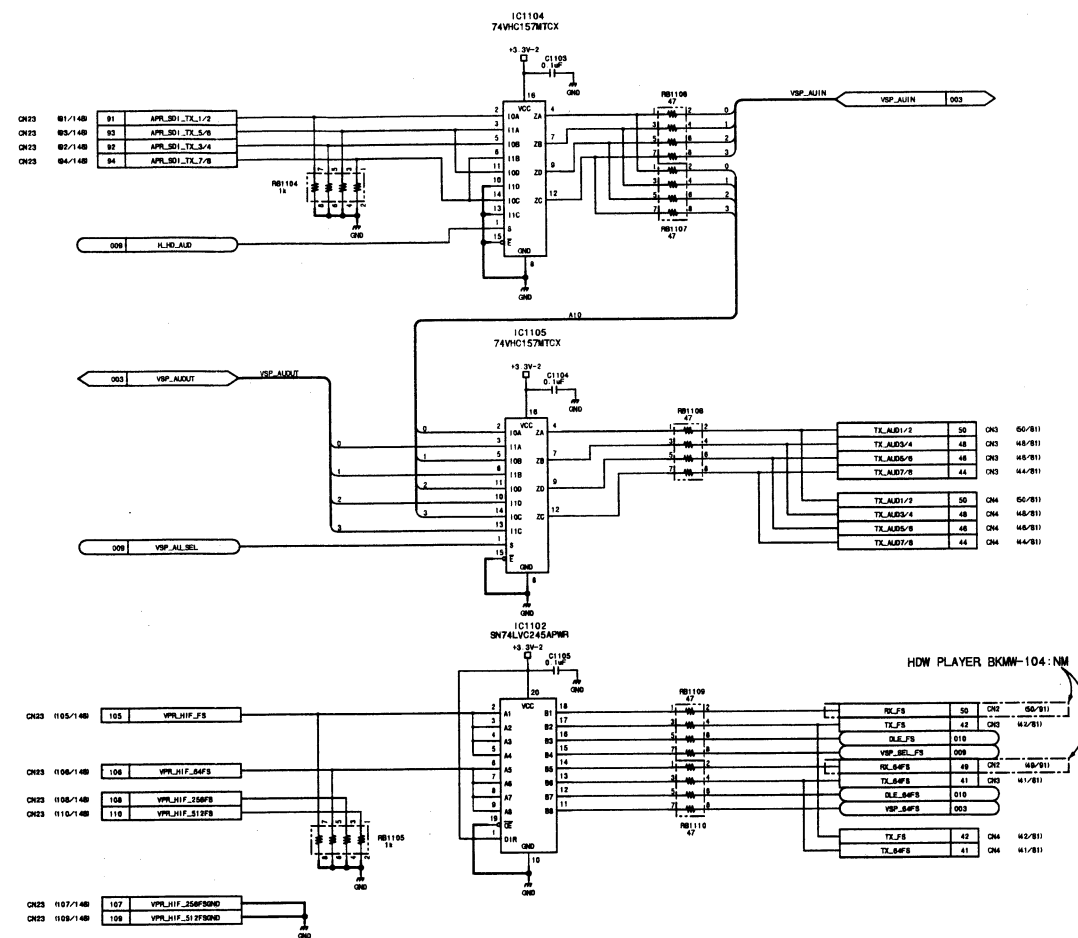
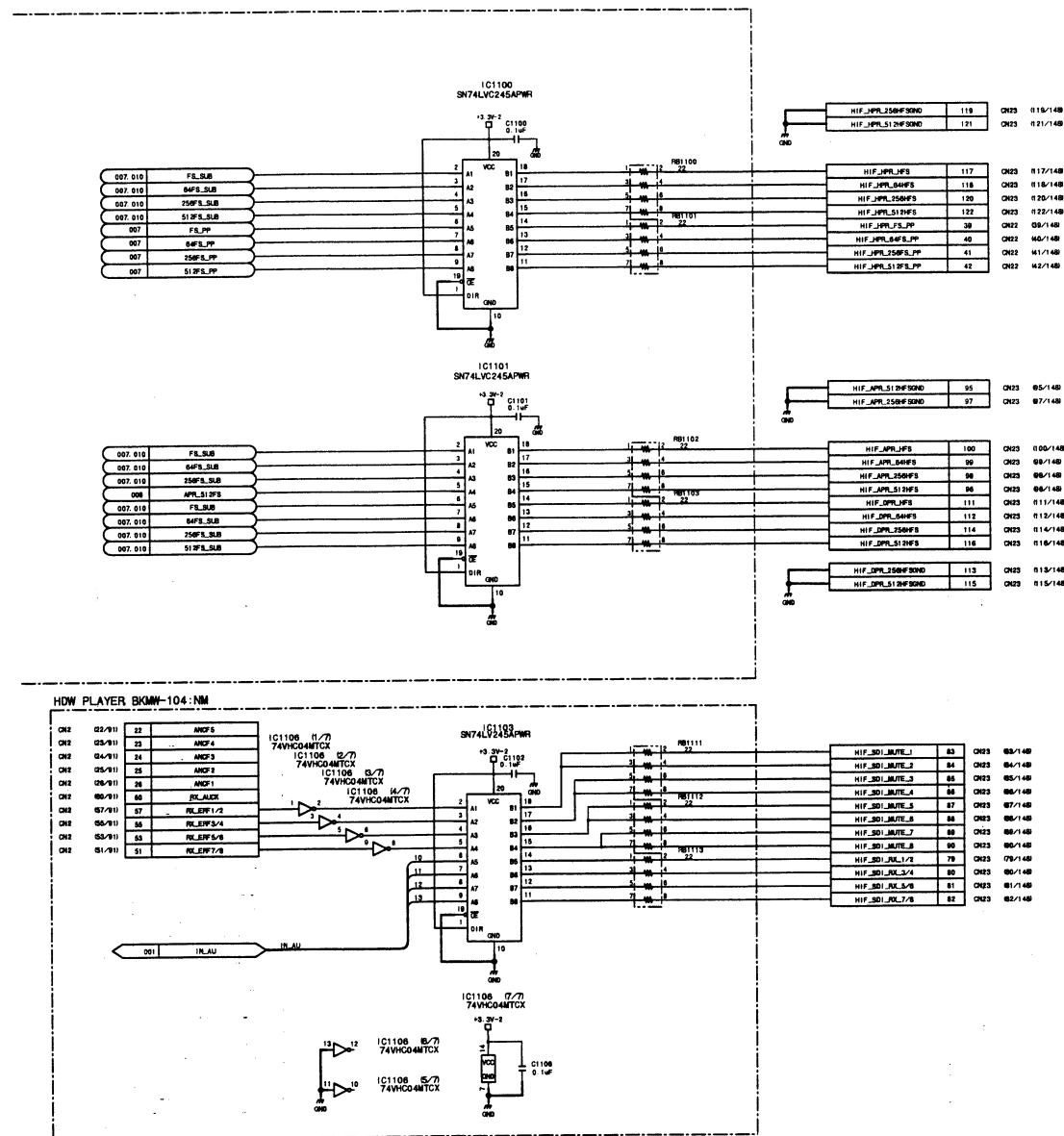
HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (6/11)
BOARD NO. 1-679-847-22, 23
HIF-1: LOT NO. 2B3-3B4 For HDW-2000, M2000/P
HIF-1A: LOT NO. 2B3-3B4 For HDW-M2100/P, A2100
HIF-1B: LOT NO. 2B3-3B4 For BKMW-104 (Option for MSW)
HDW-A2100_HIF-1_23P_6







HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (9/11)
BOARD NO. 1-679-847-22, 23
HIF-1: LOT NO. 2B3-3B4 For HDW-2000, M2000/P
HIF-1A: LOT NO. 2B3-3B4 For HDW-M2100/P, A2100
HIF-1B: LOT NO. 2B3-3B4 For BKMW-104 (Option for MSW)
HDW-A2100_HIF-1_23P_9



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)

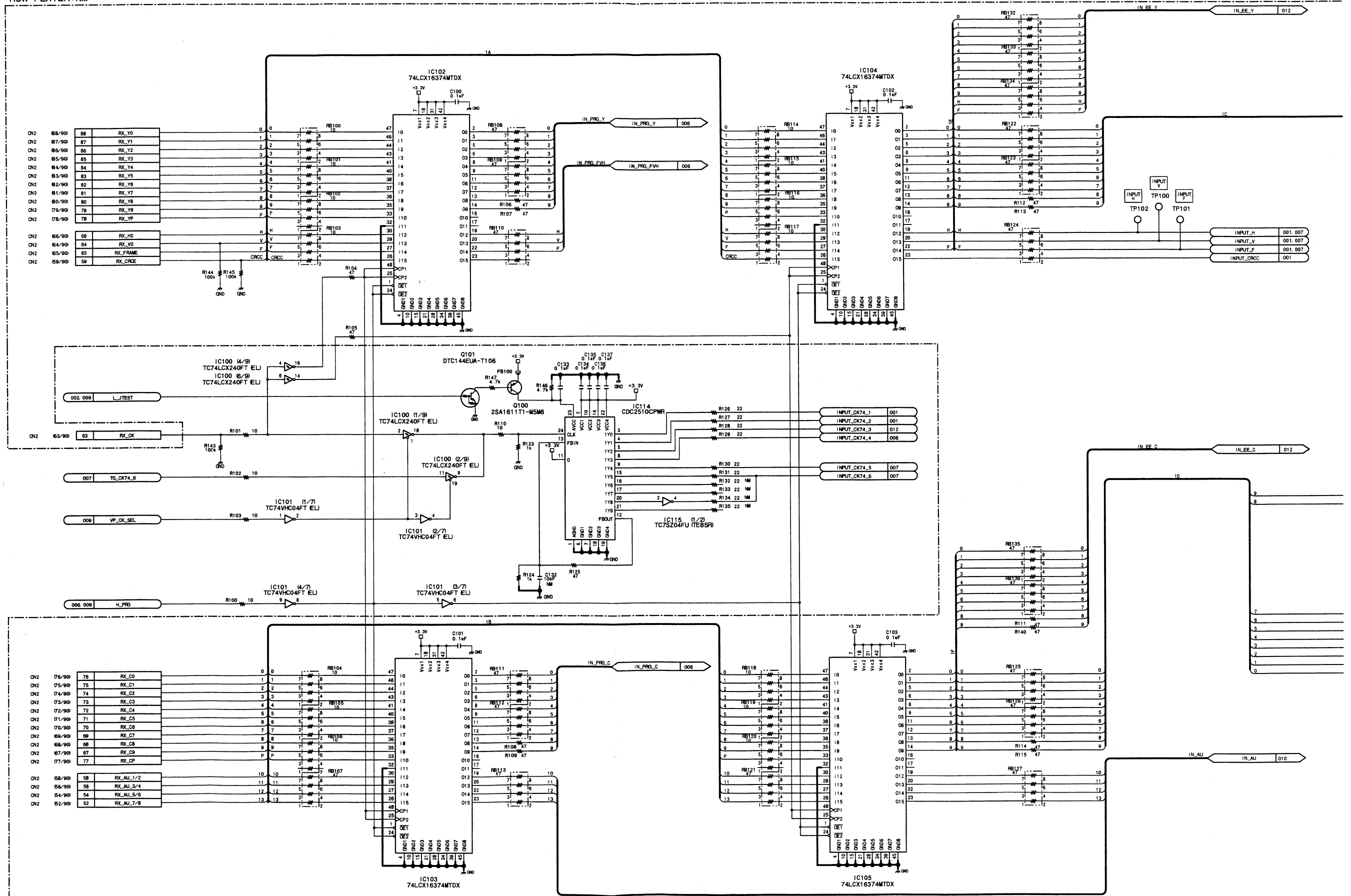
HIF-1 (10/11)

BOARD NO. 1-679-847-22, 23

HIF-1:	LOT NO. 2B3-3B4	For HDW-2000, M2000/P
HIF-1A:	LOT NO. 2B3-3B4	For HDW-M2100/P, A2100
HIF-1B:	LOT NO. 2B3-3B4	For BKMW-104 (Option for MSW)

HDW-A2100_HIF-1_23P_10

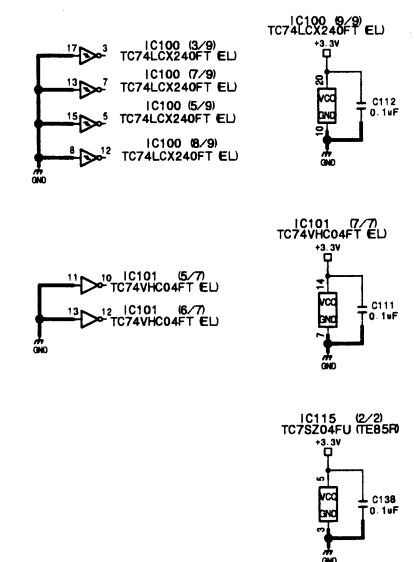
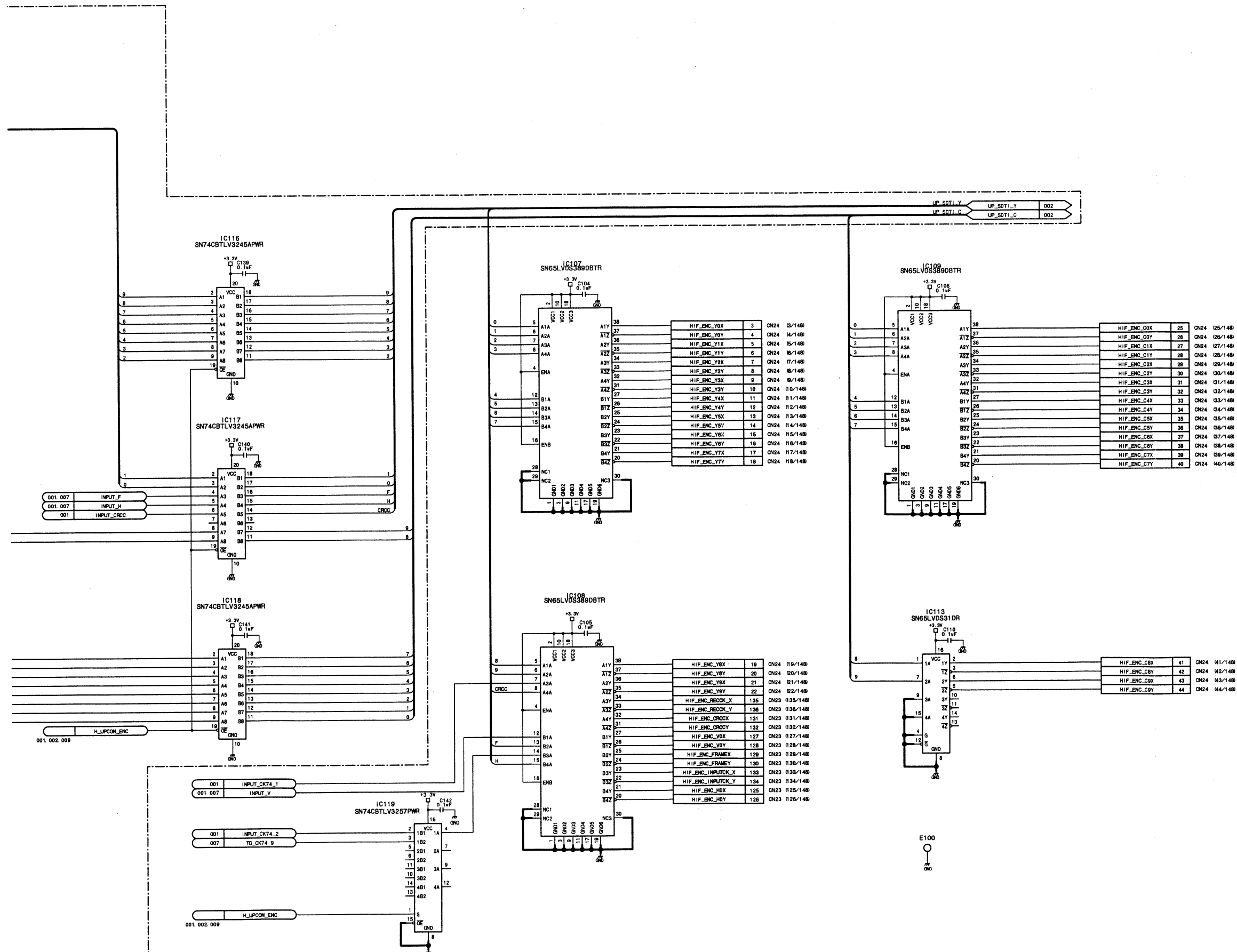
HDW PLAYER:NM



1-206 (a)

1-206 (a)

HDW series, DVW series, MSW series



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (1/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_1

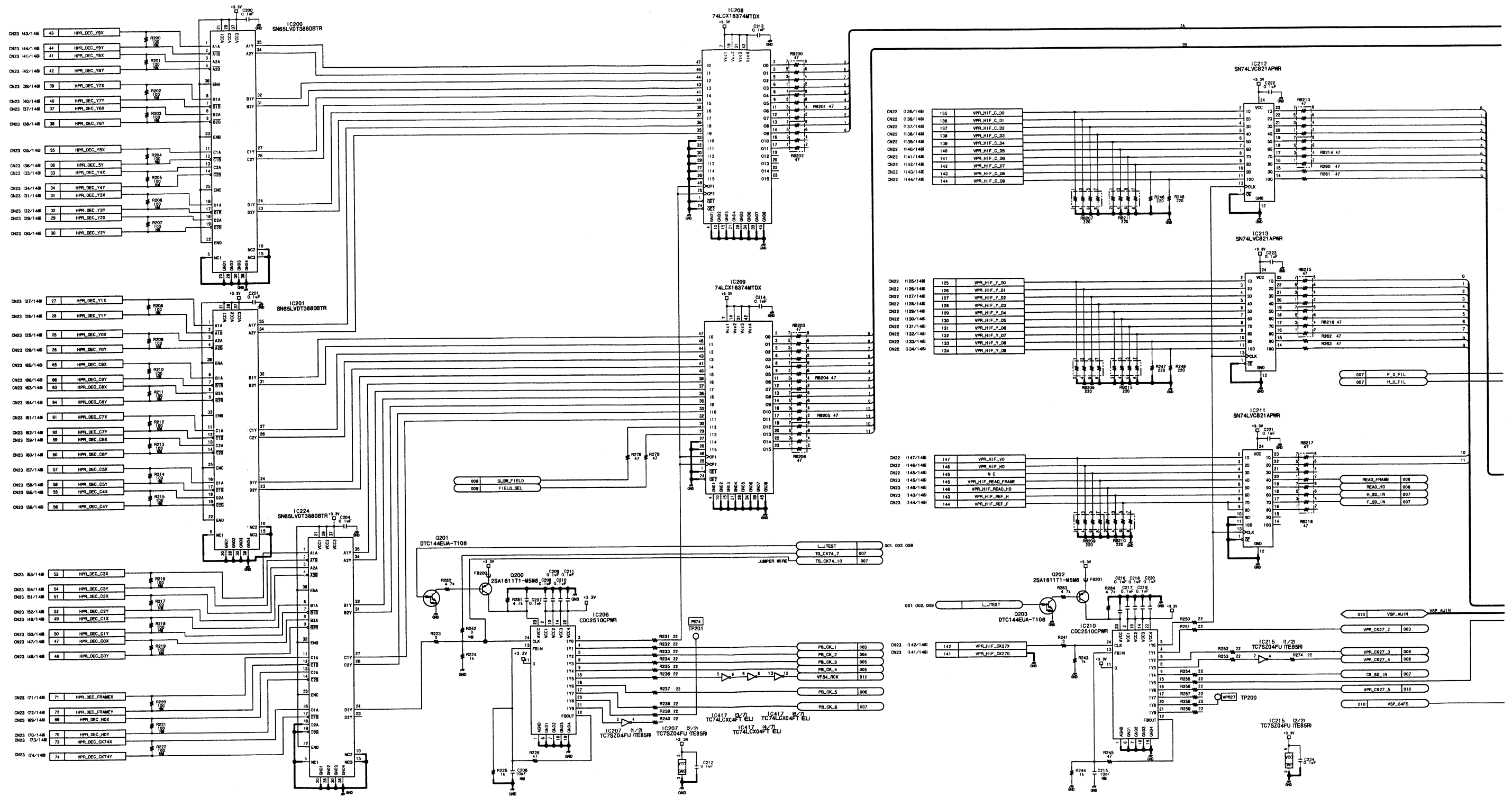
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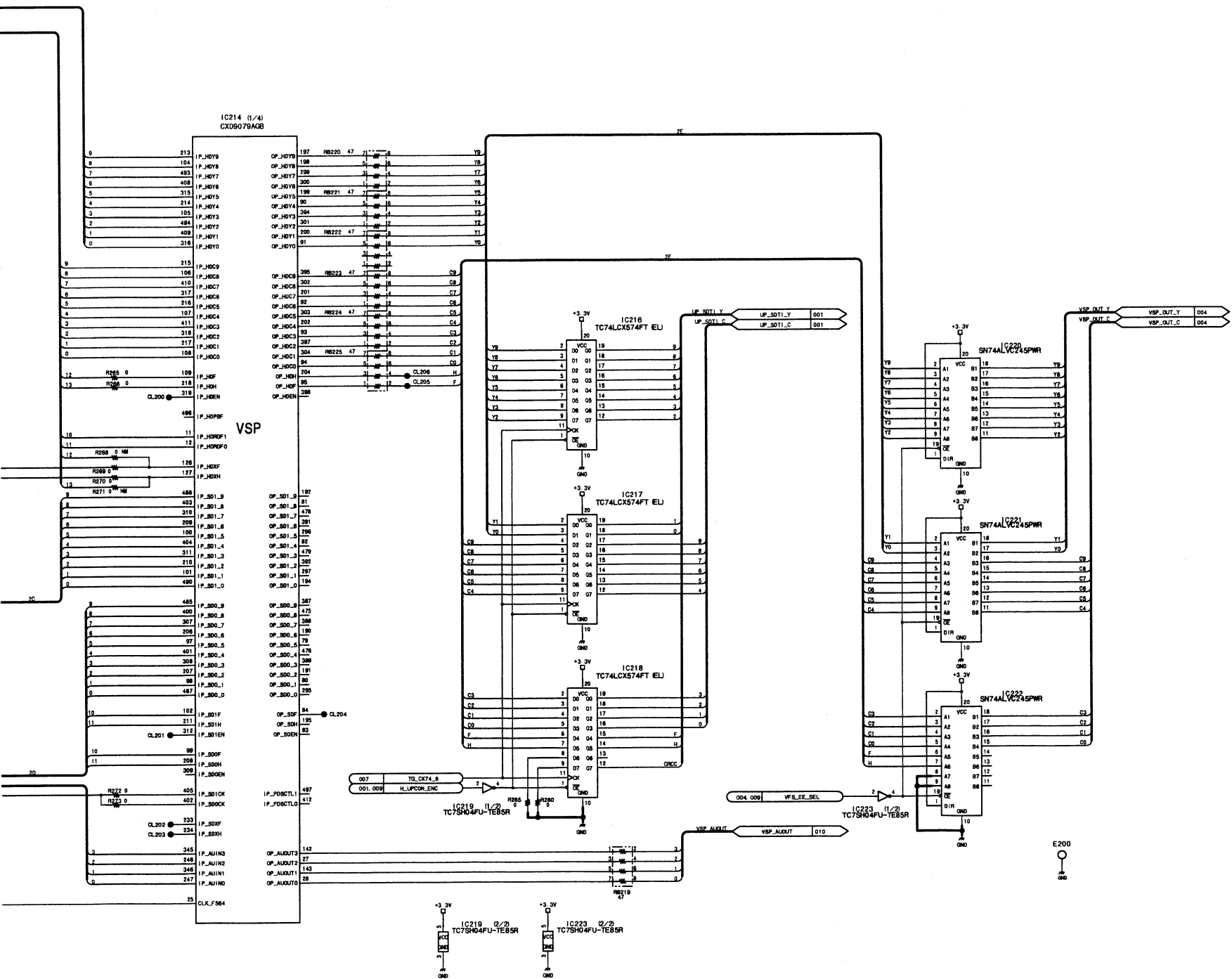
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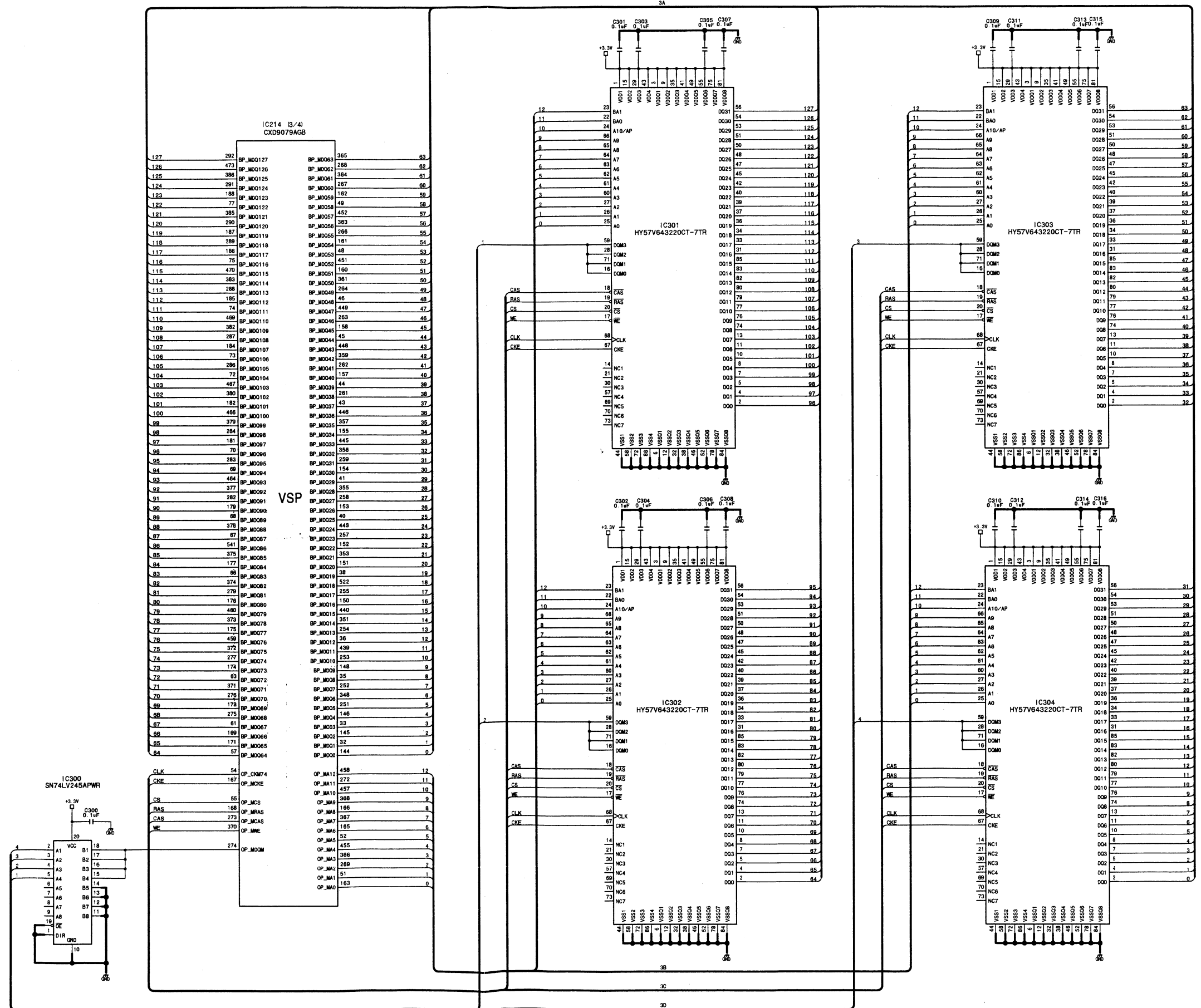
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5





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (2/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2 100
HDW-A2100_HIF-1_109_2



1-210 (a)

1-210 (a)

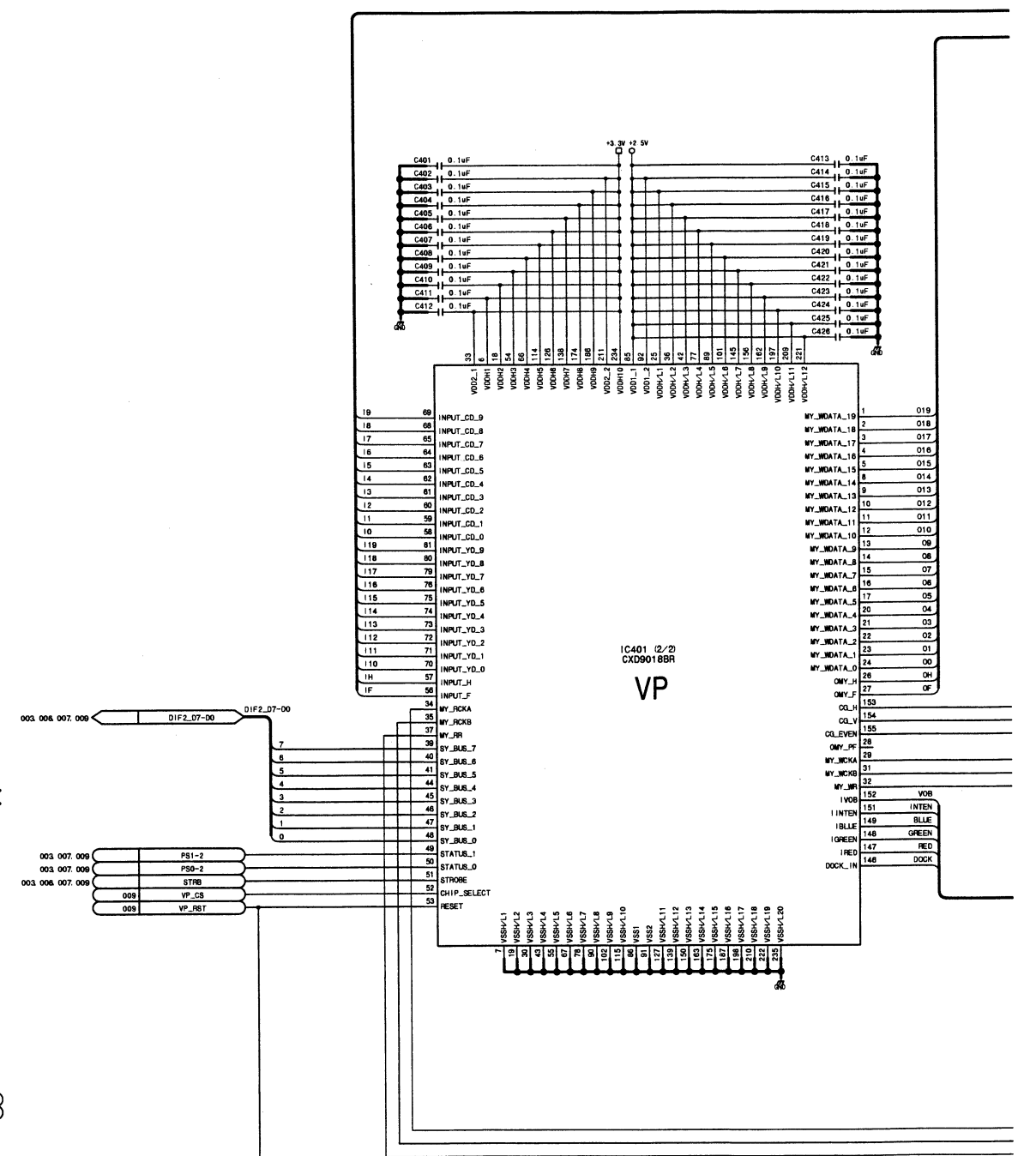
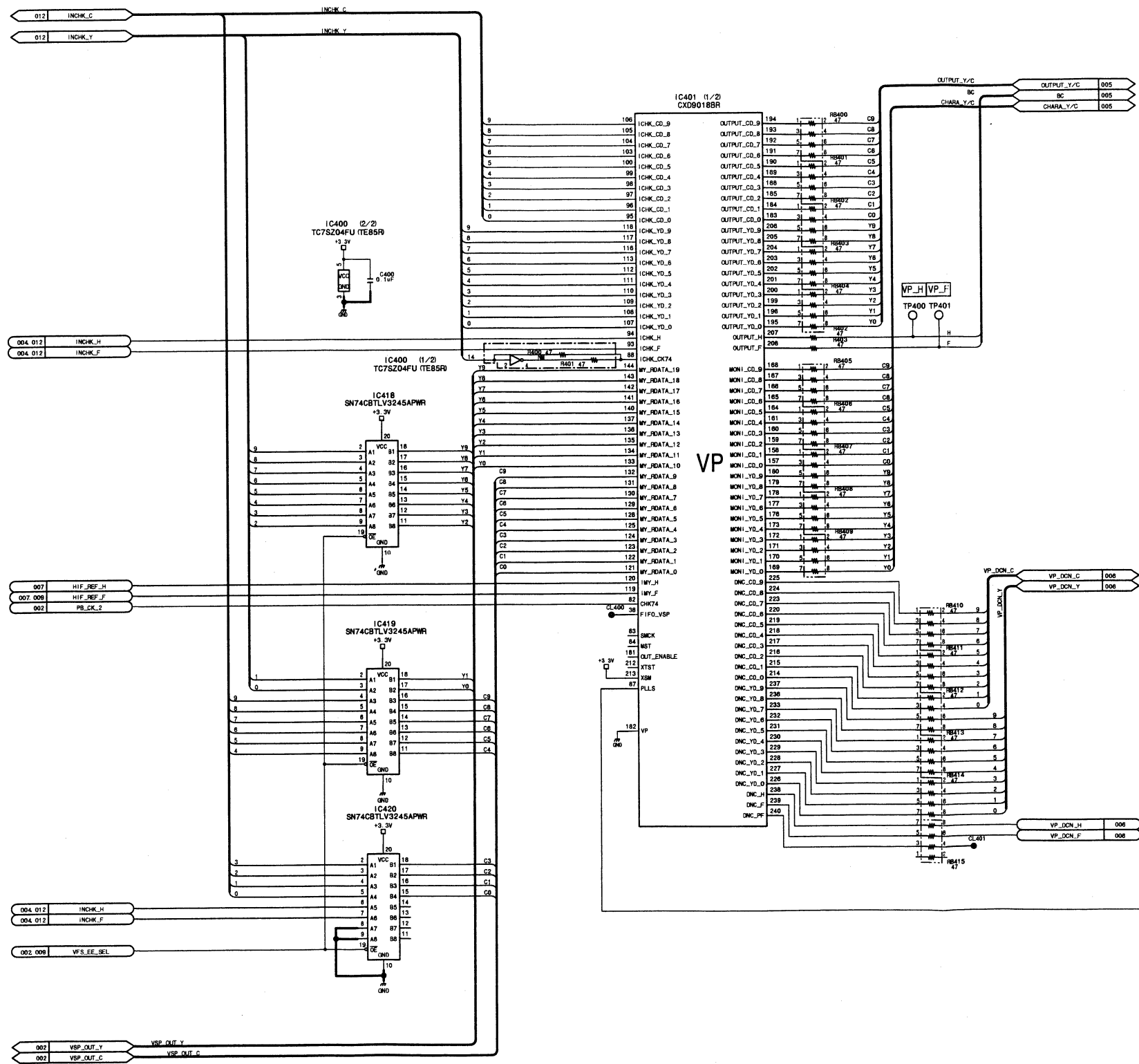
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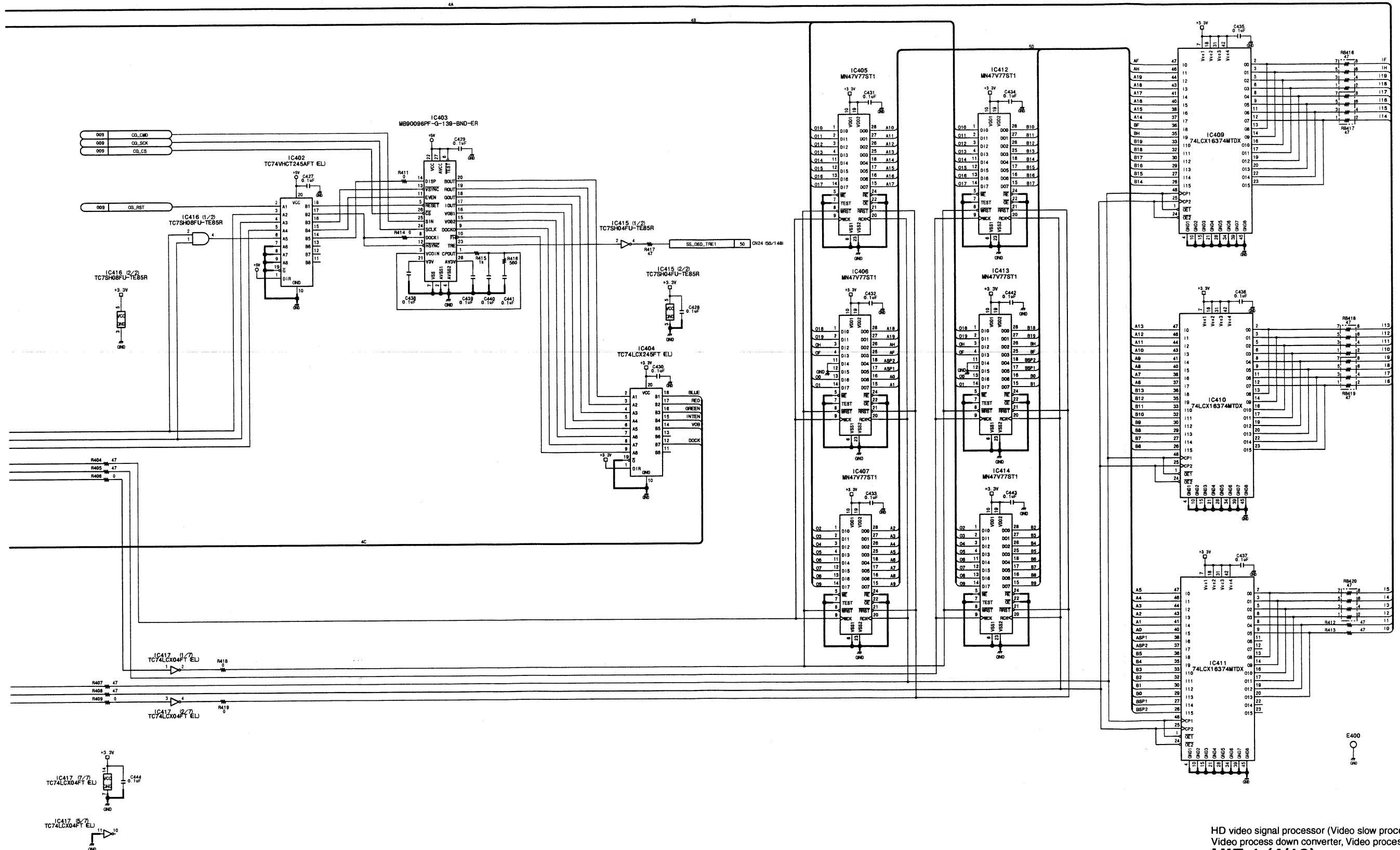
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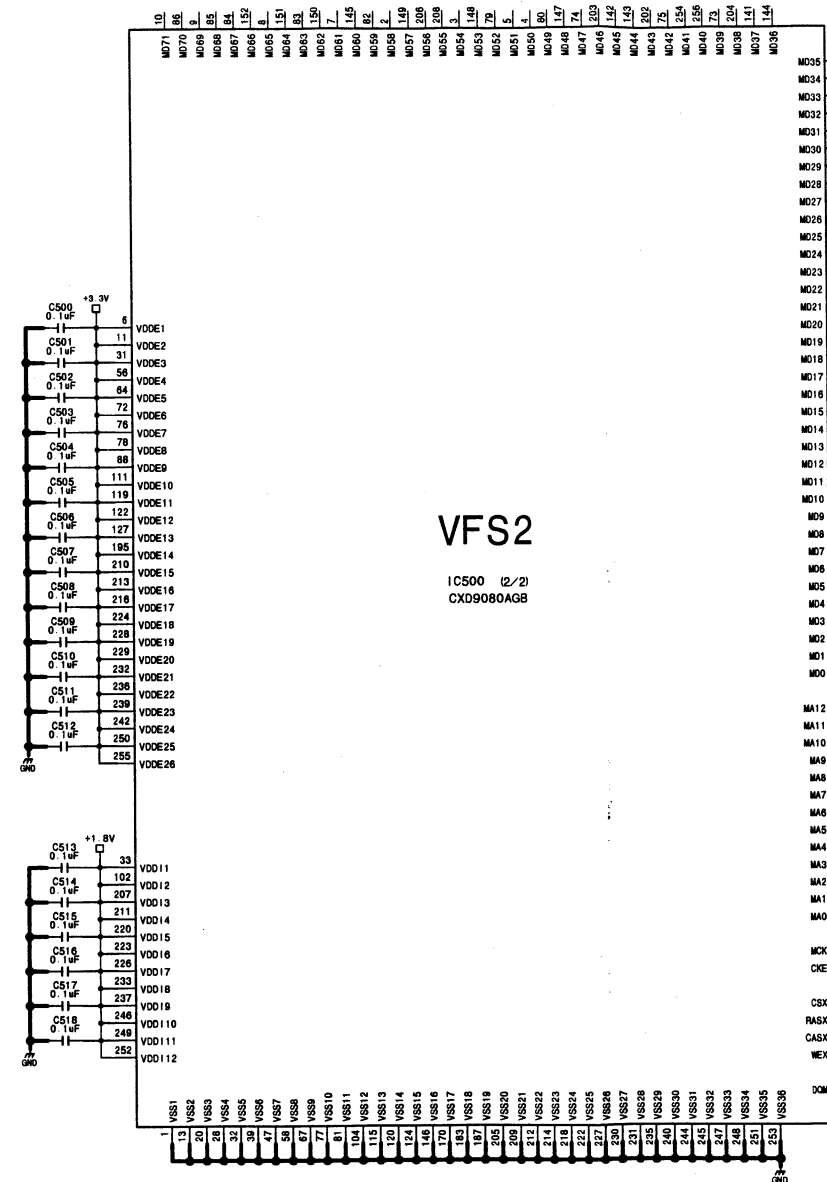
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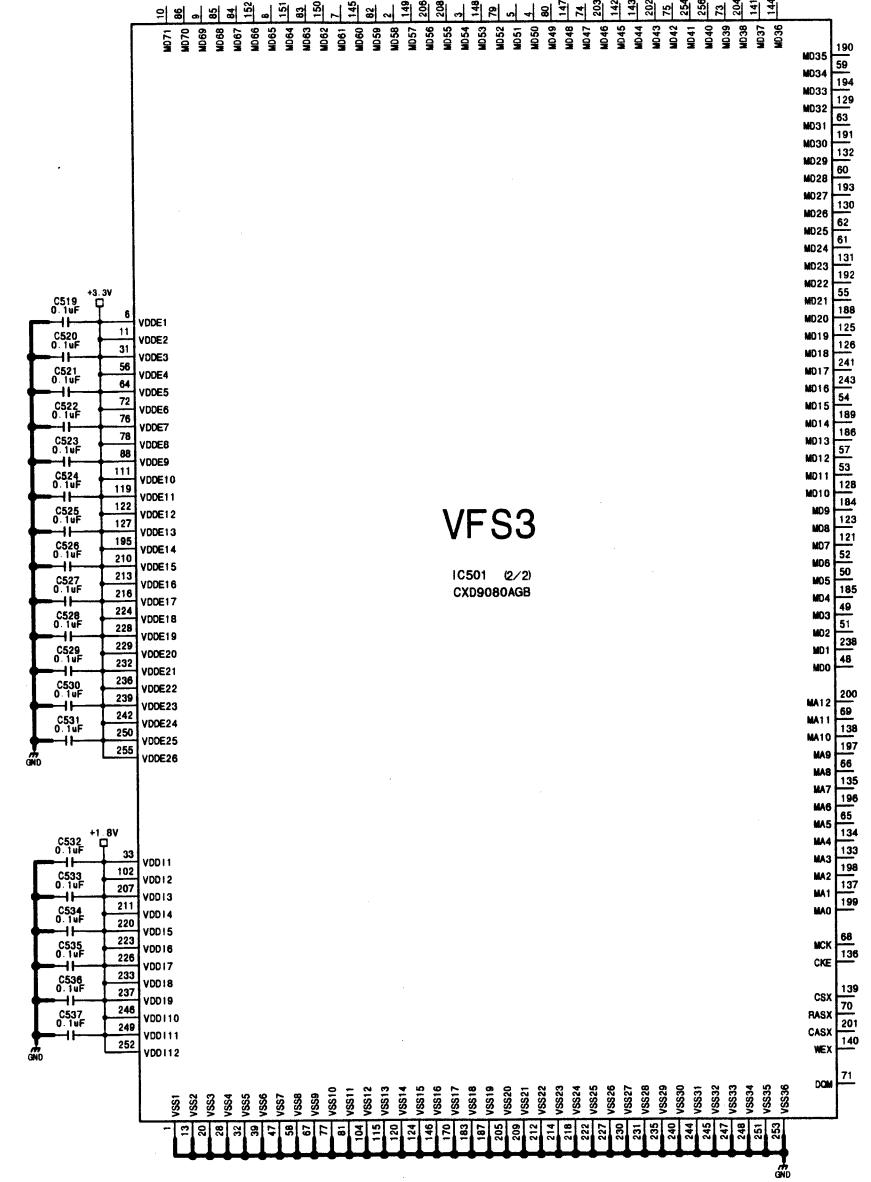




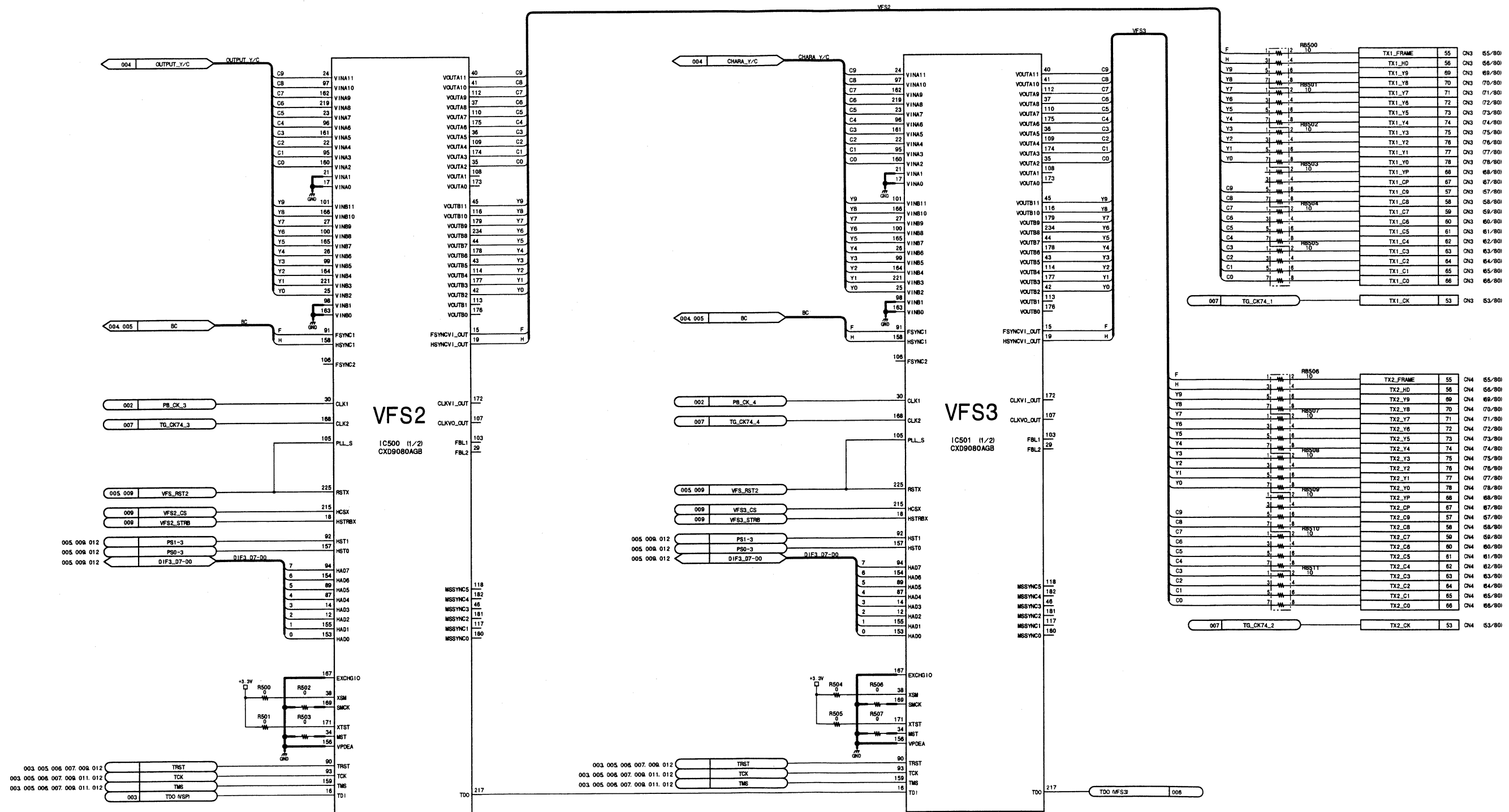
HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (4/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_4



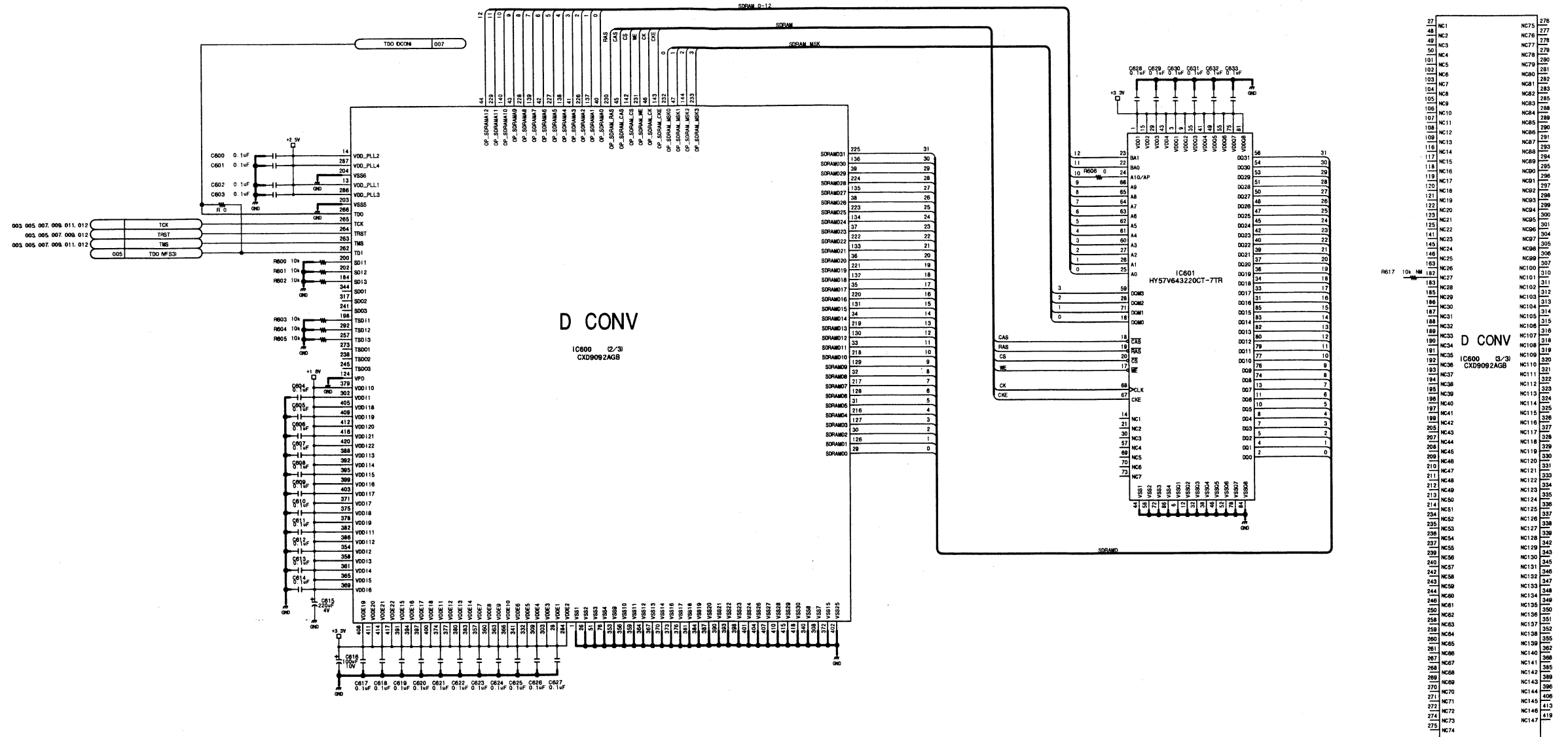
1-214 (a)



1-214 (a)



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (5/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2100/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_5



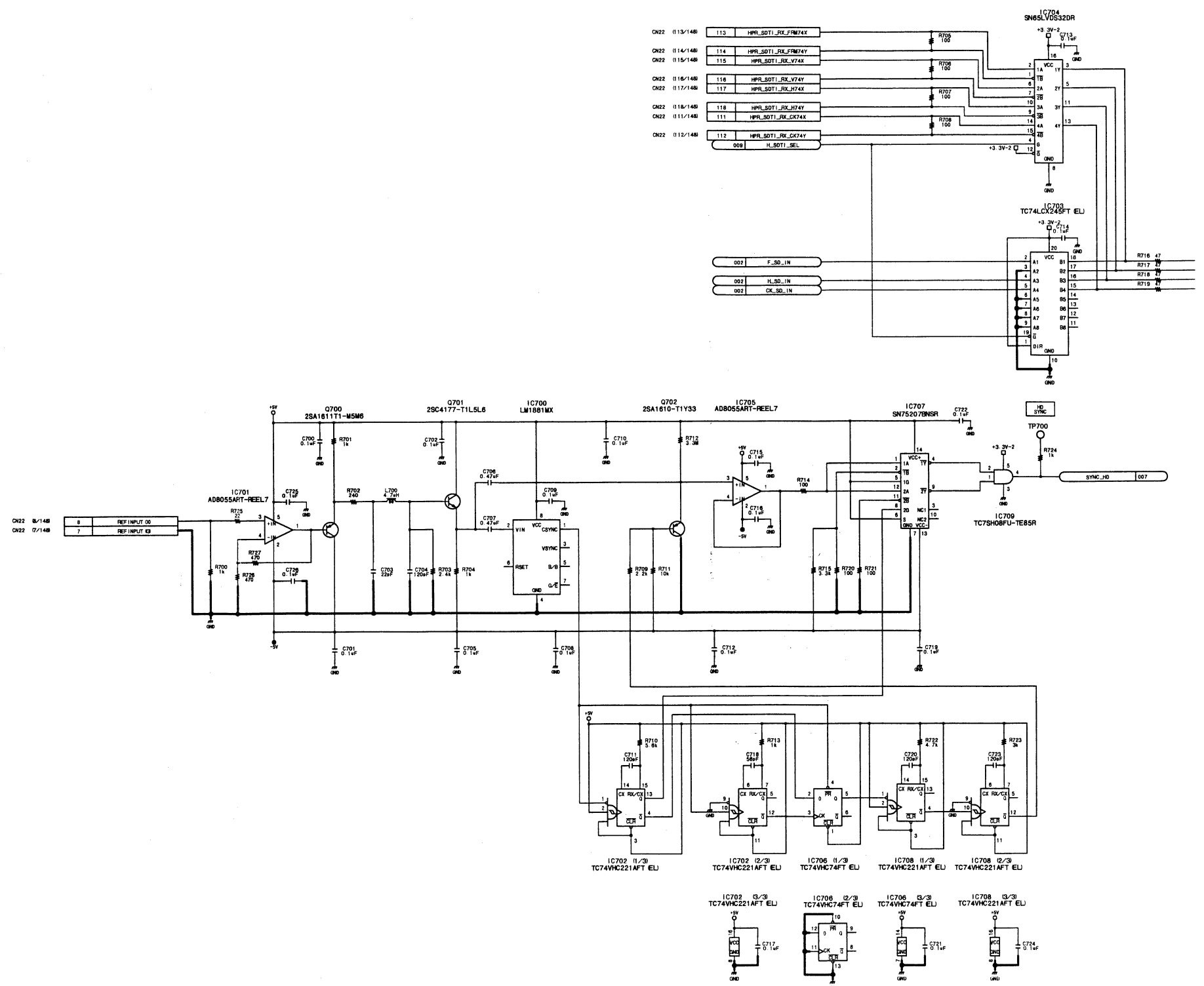
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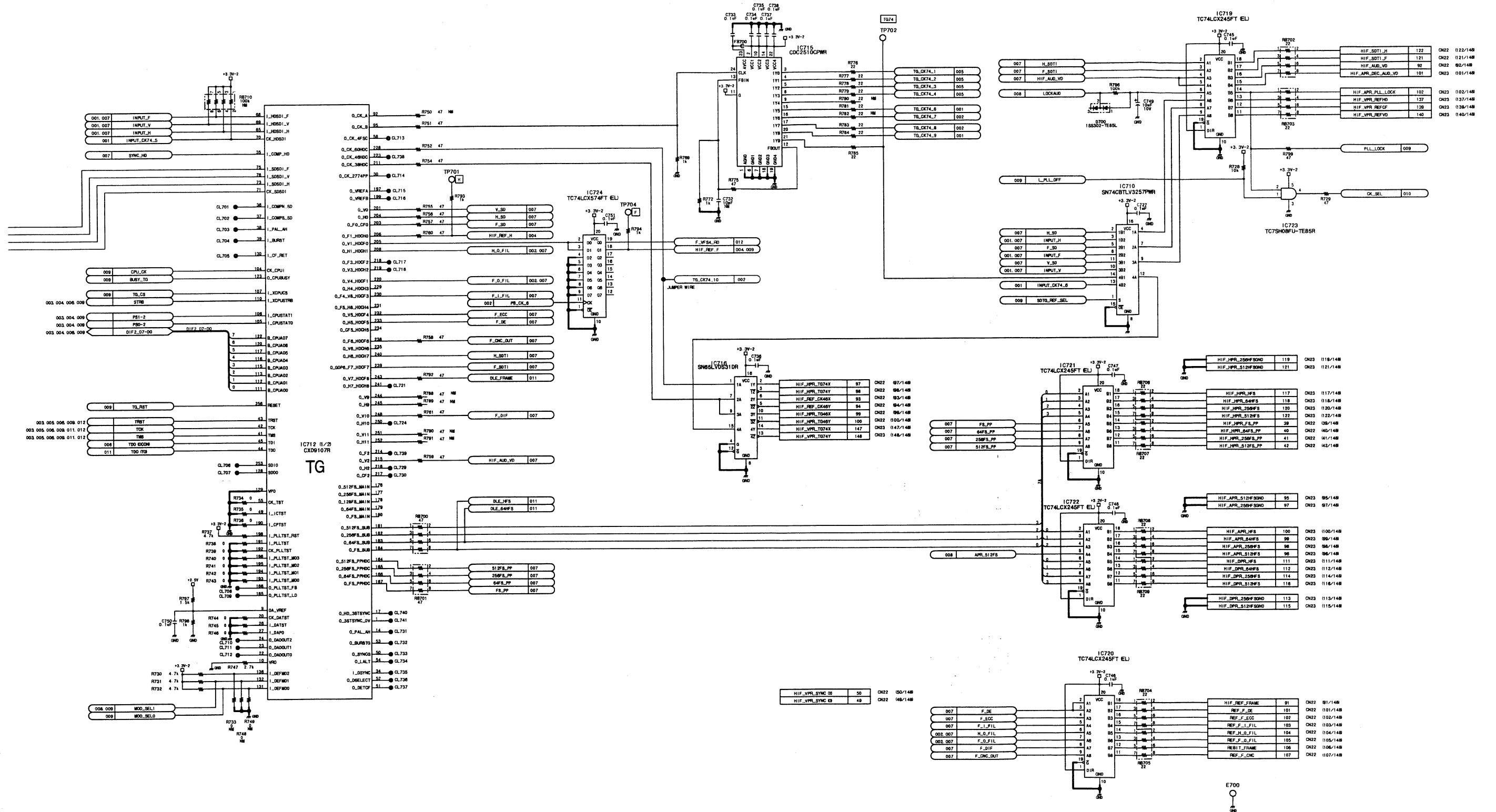
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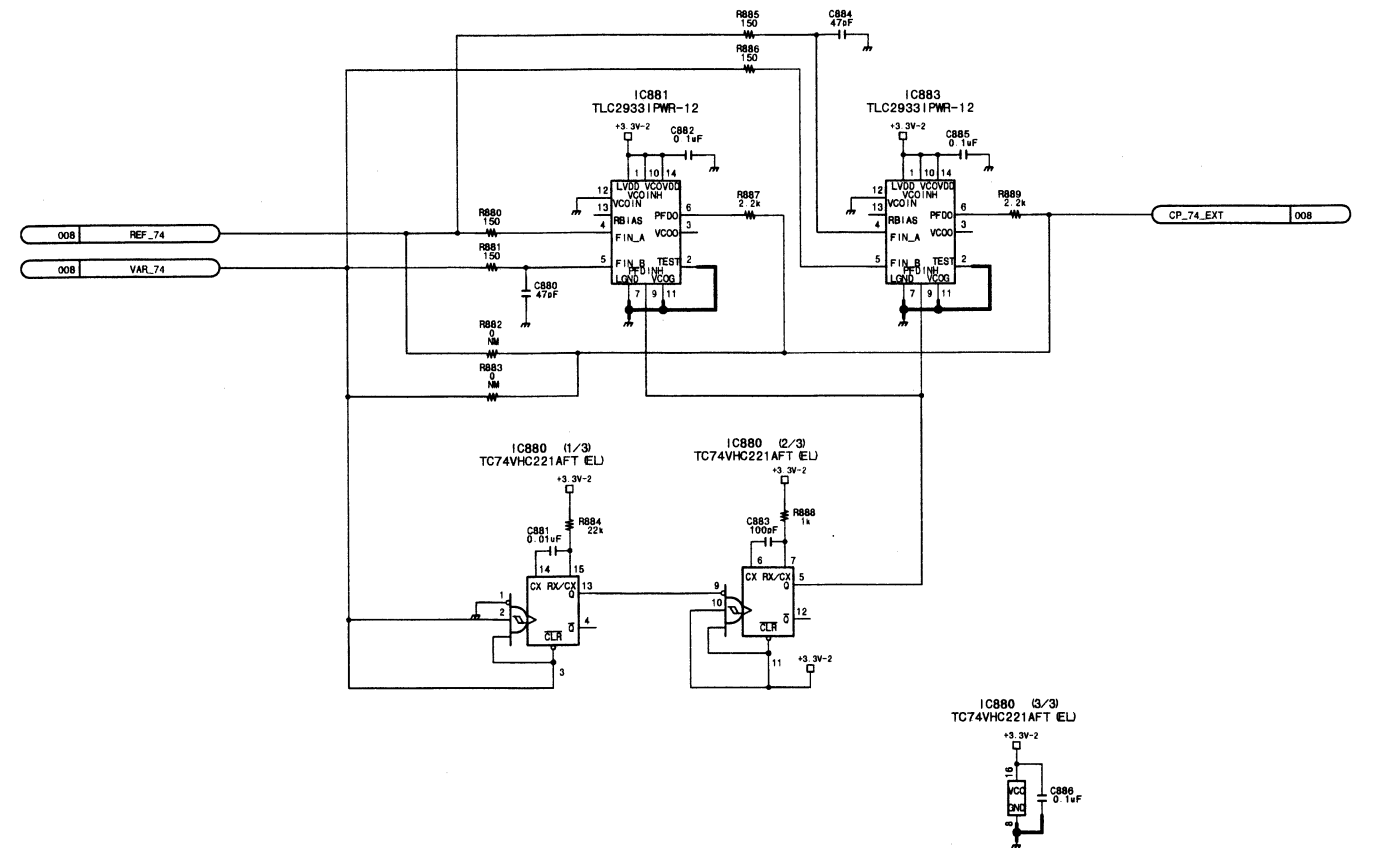
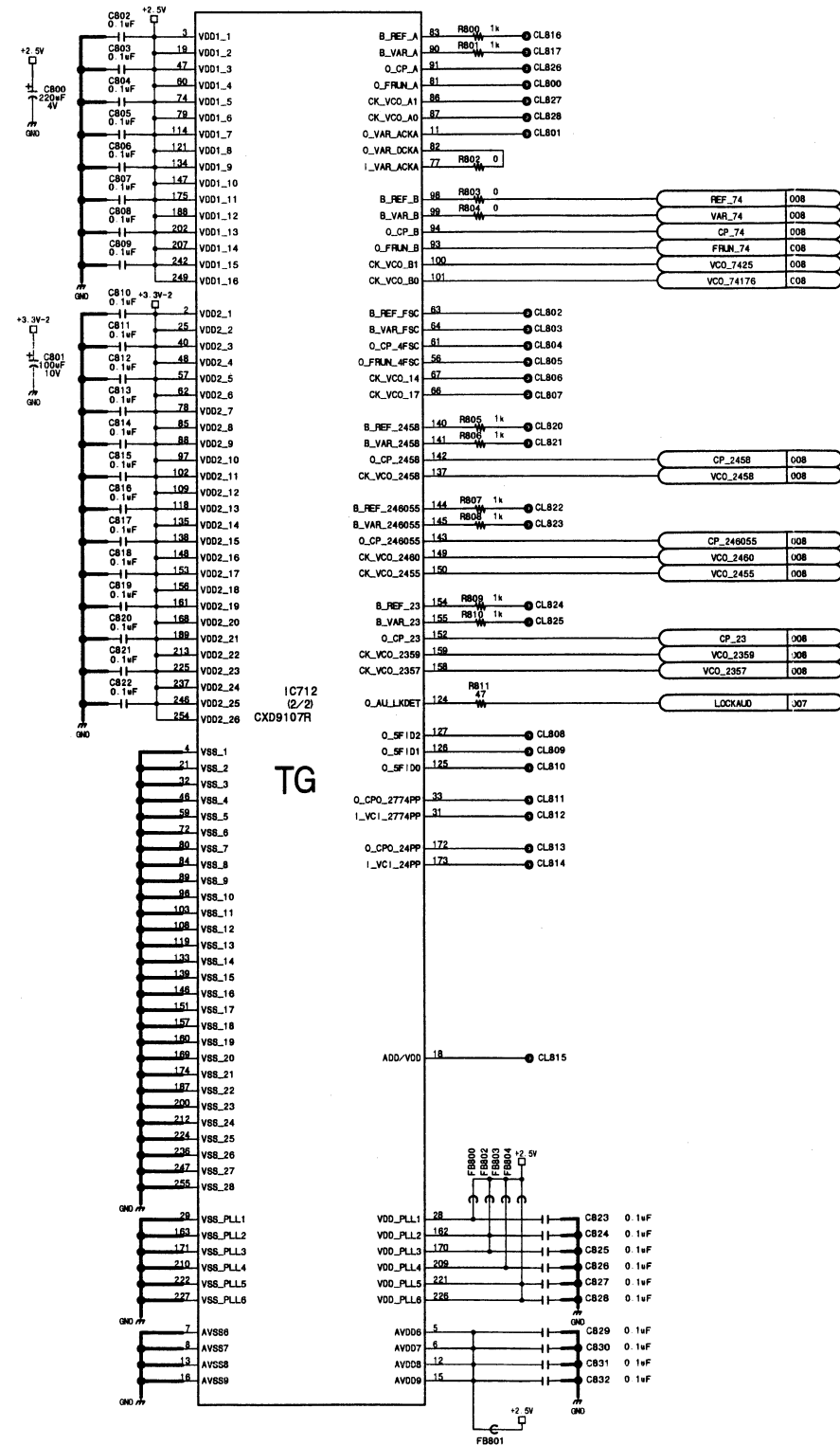
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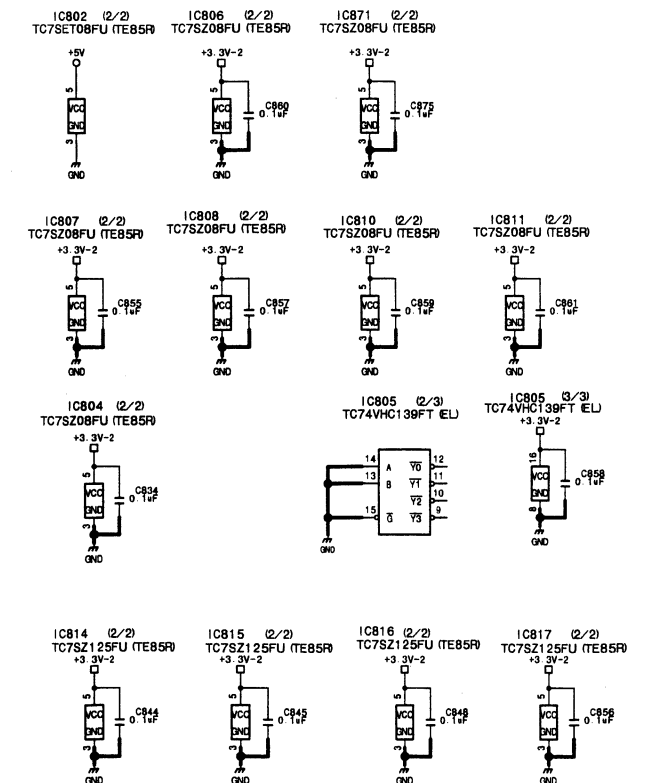
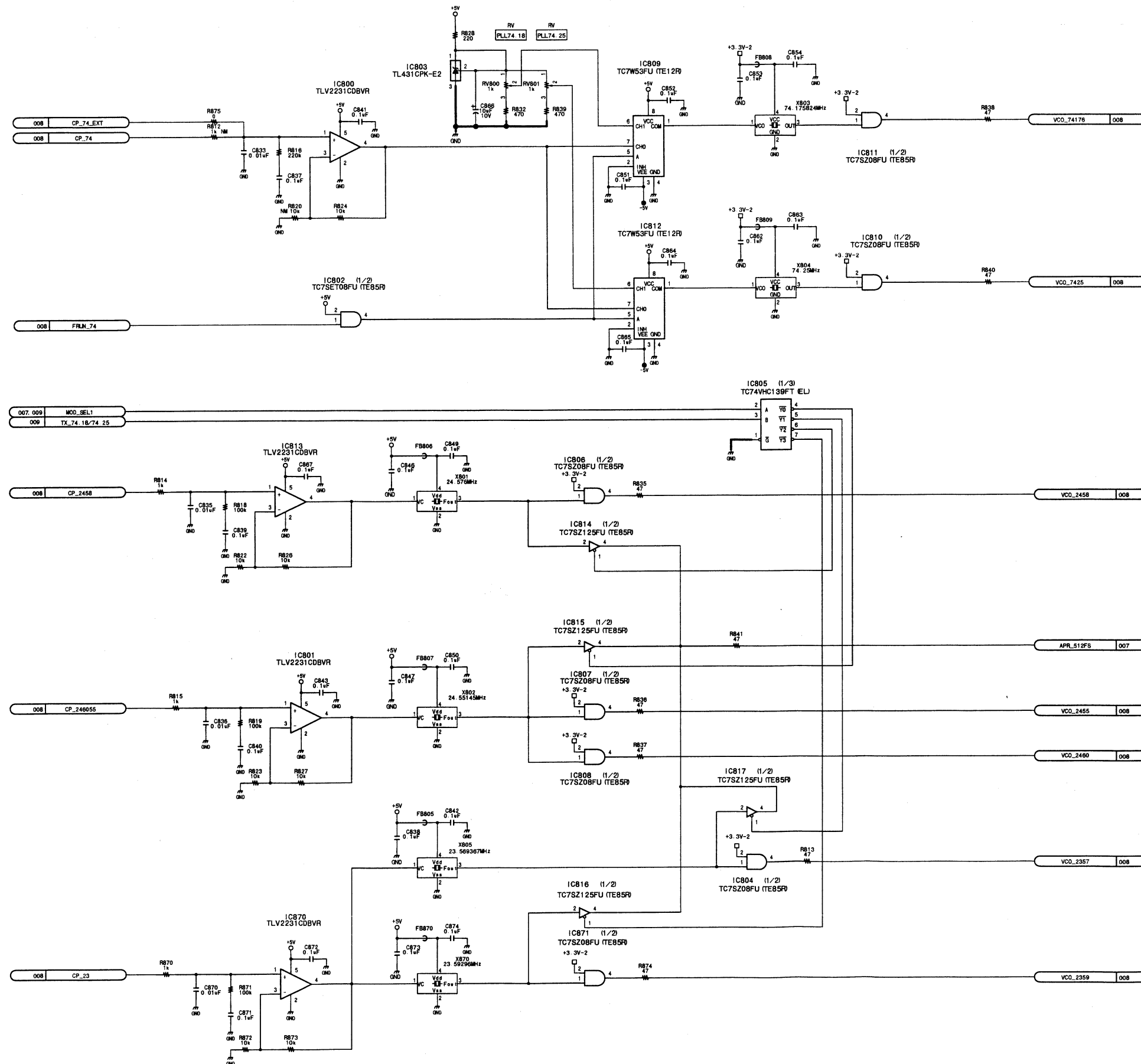
5





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (7/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_7





HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (8/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_8

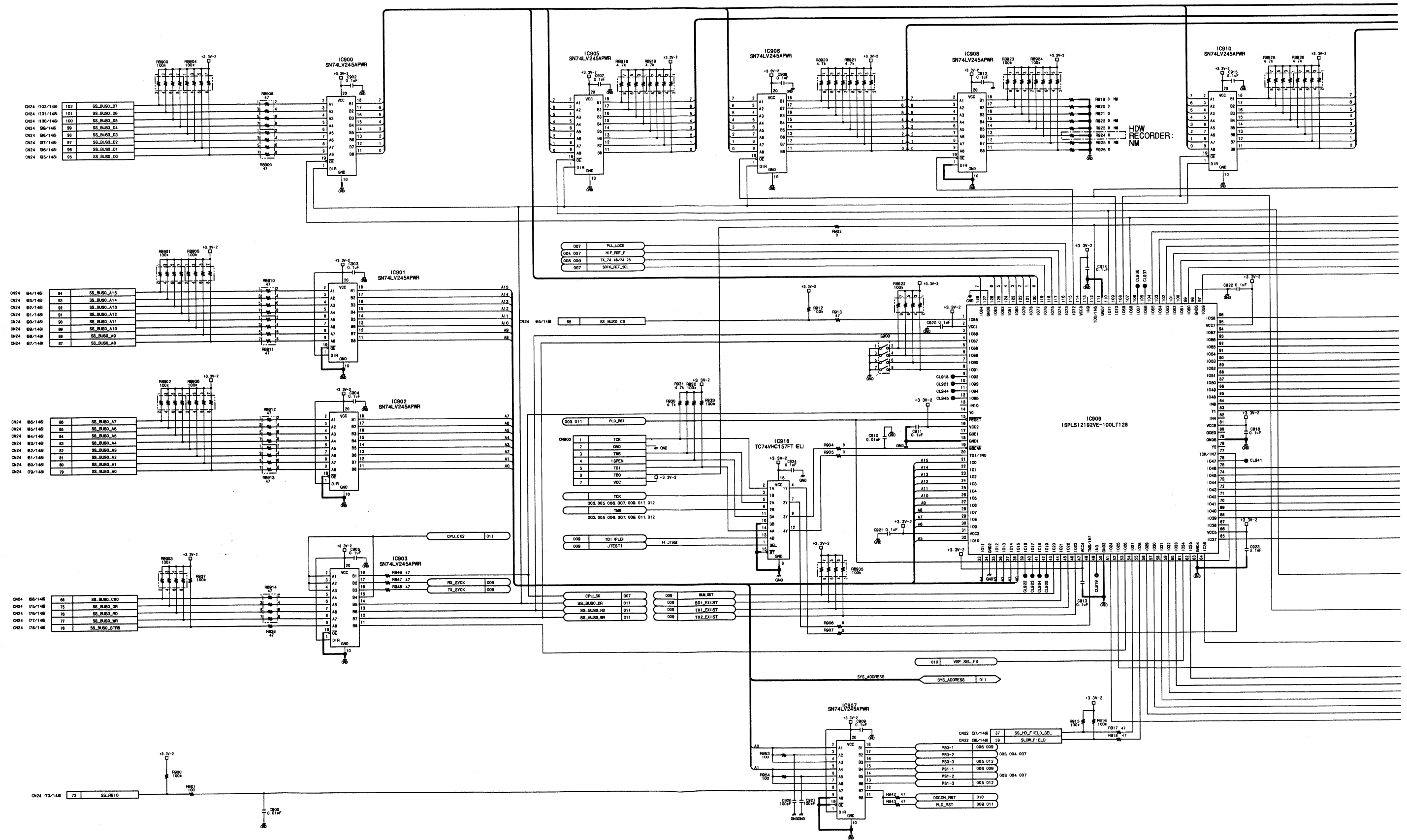
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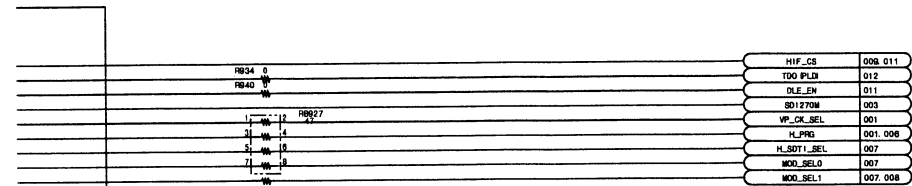
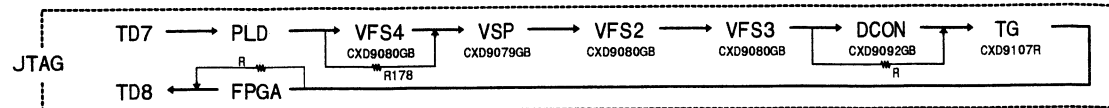
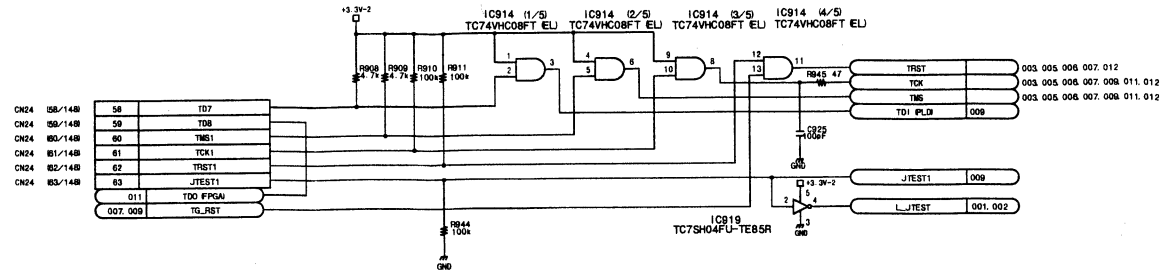
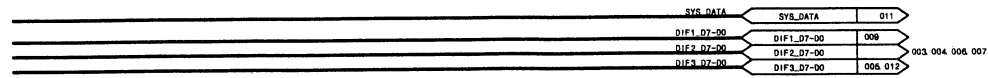
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3

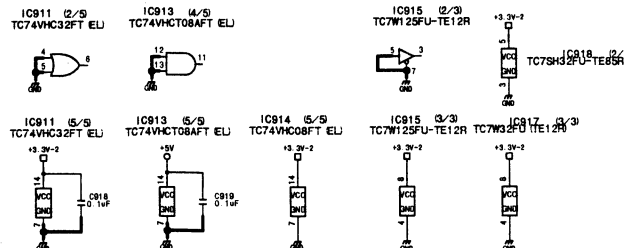
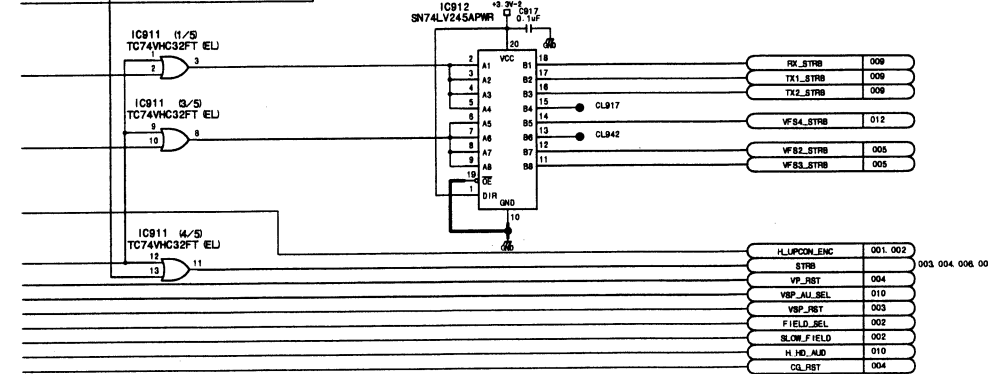
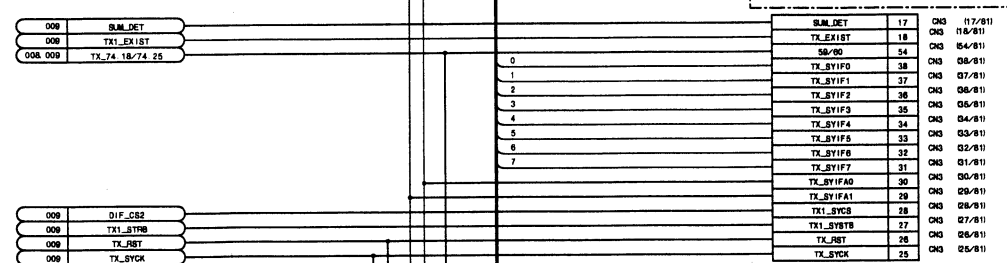
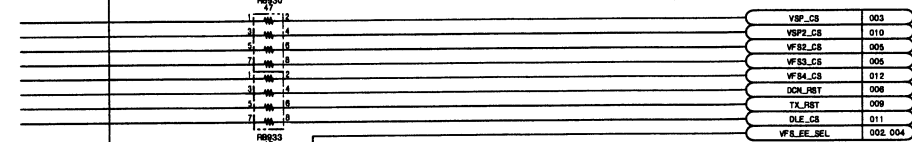
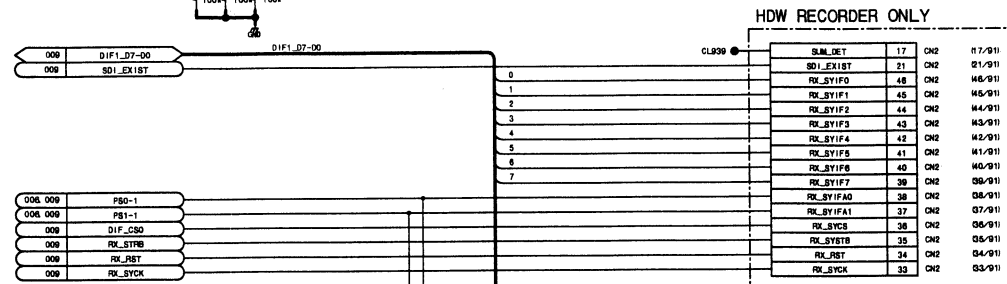
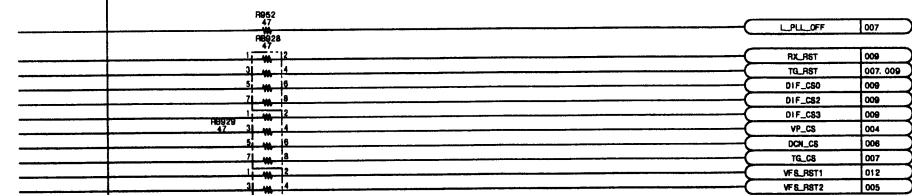
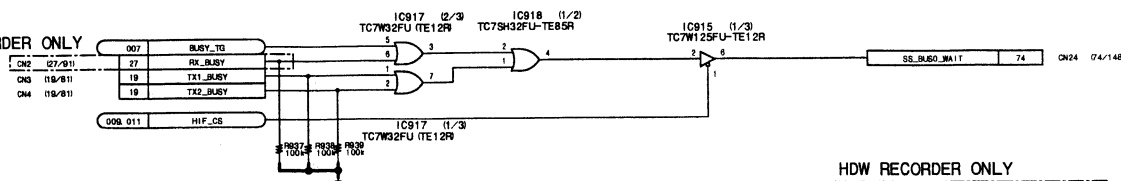
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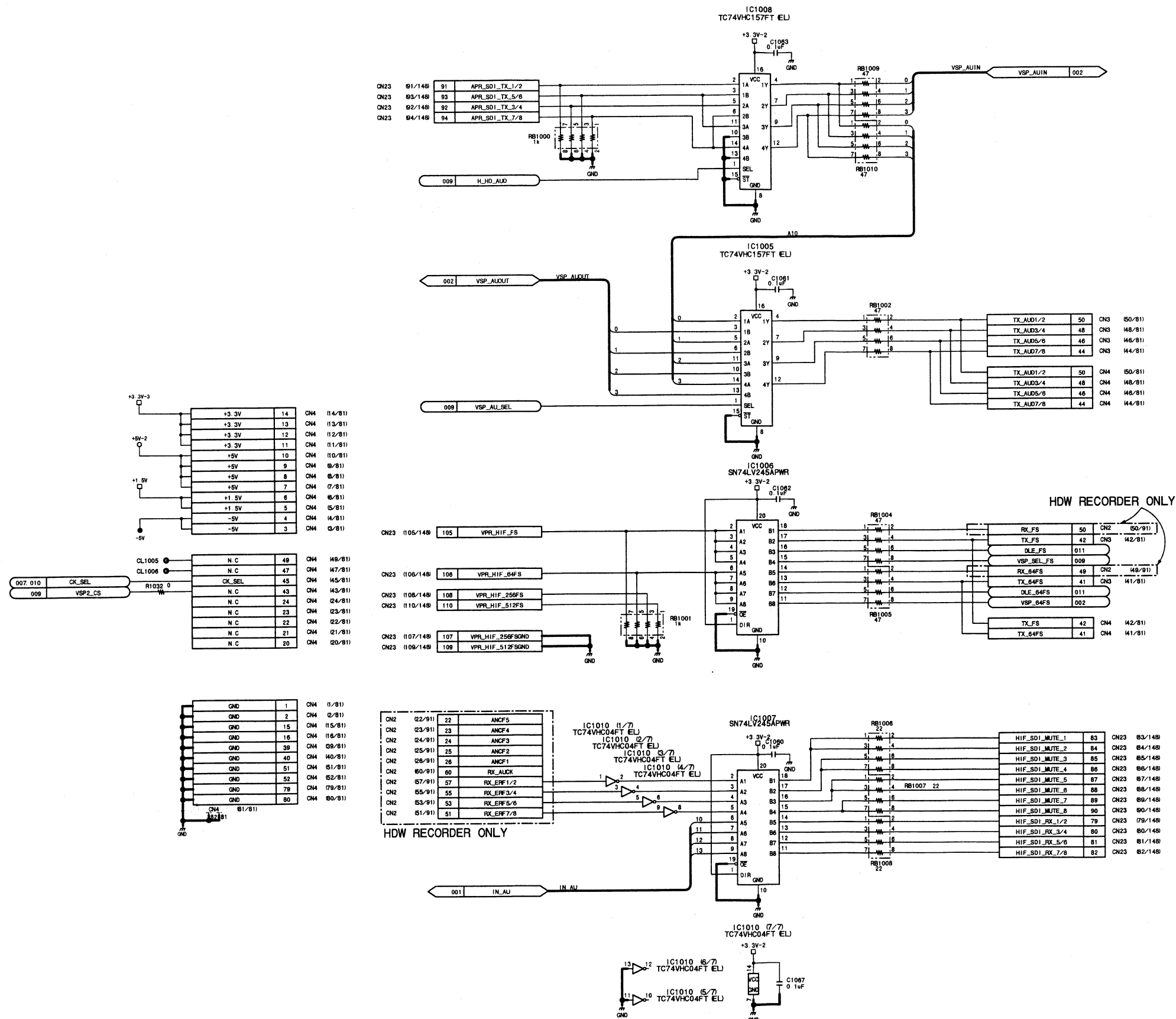
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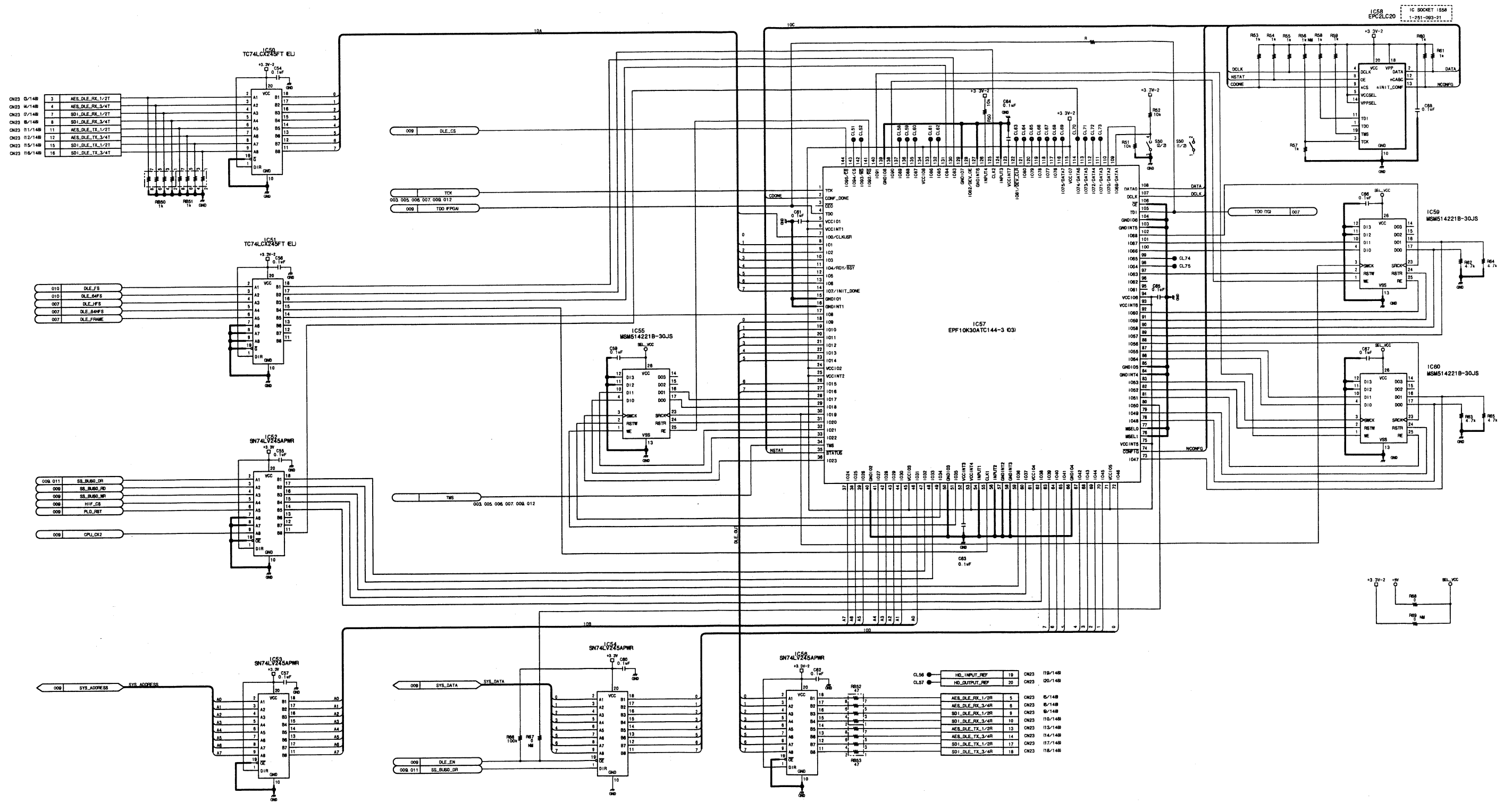
HDW RECORDER ONLY



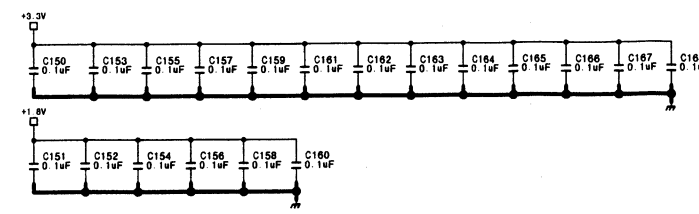
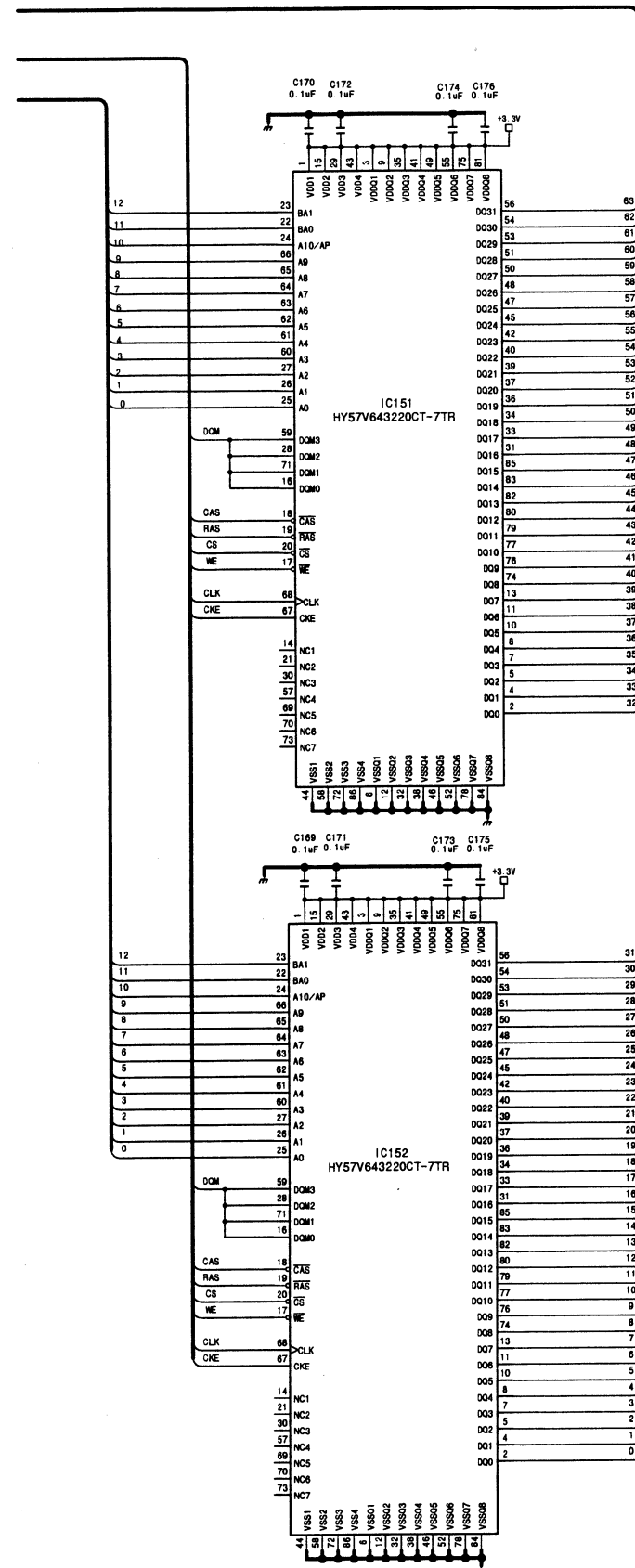


HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (10/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_10

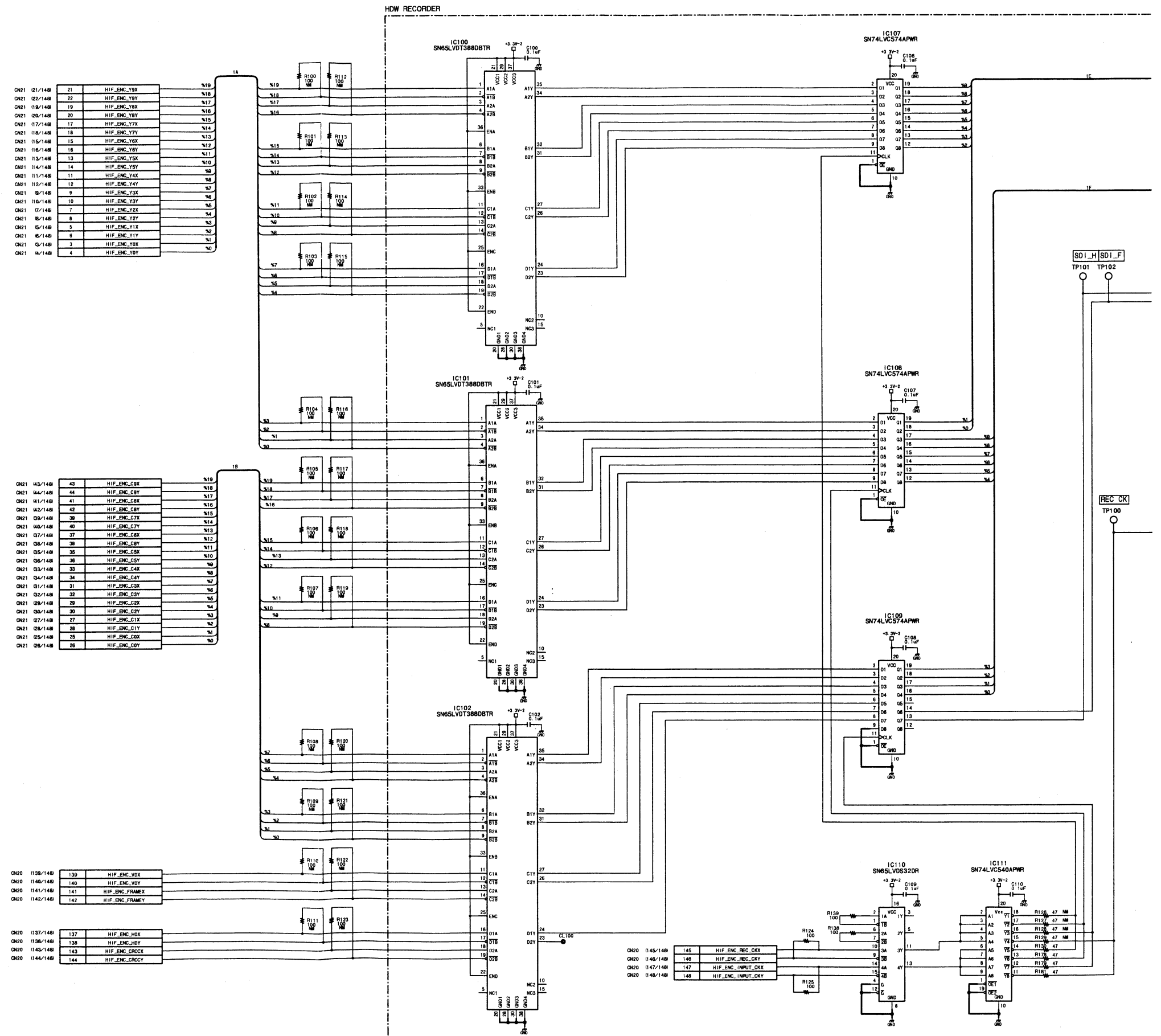




HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (11/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_11



HD video signal processor (Video slow process,
Video process down converter, Video process up converter)
HIF-1 (12/12)
BOARD NO. 1-679-847-21
HIF-1: LOT NO. 261-2B2 For HDW-2000, M2000/P
HIF-1A: LOT NO. 261-2B2 For HDW-M2100/P, A2100
HDW-A2100_HIF-1_109_12

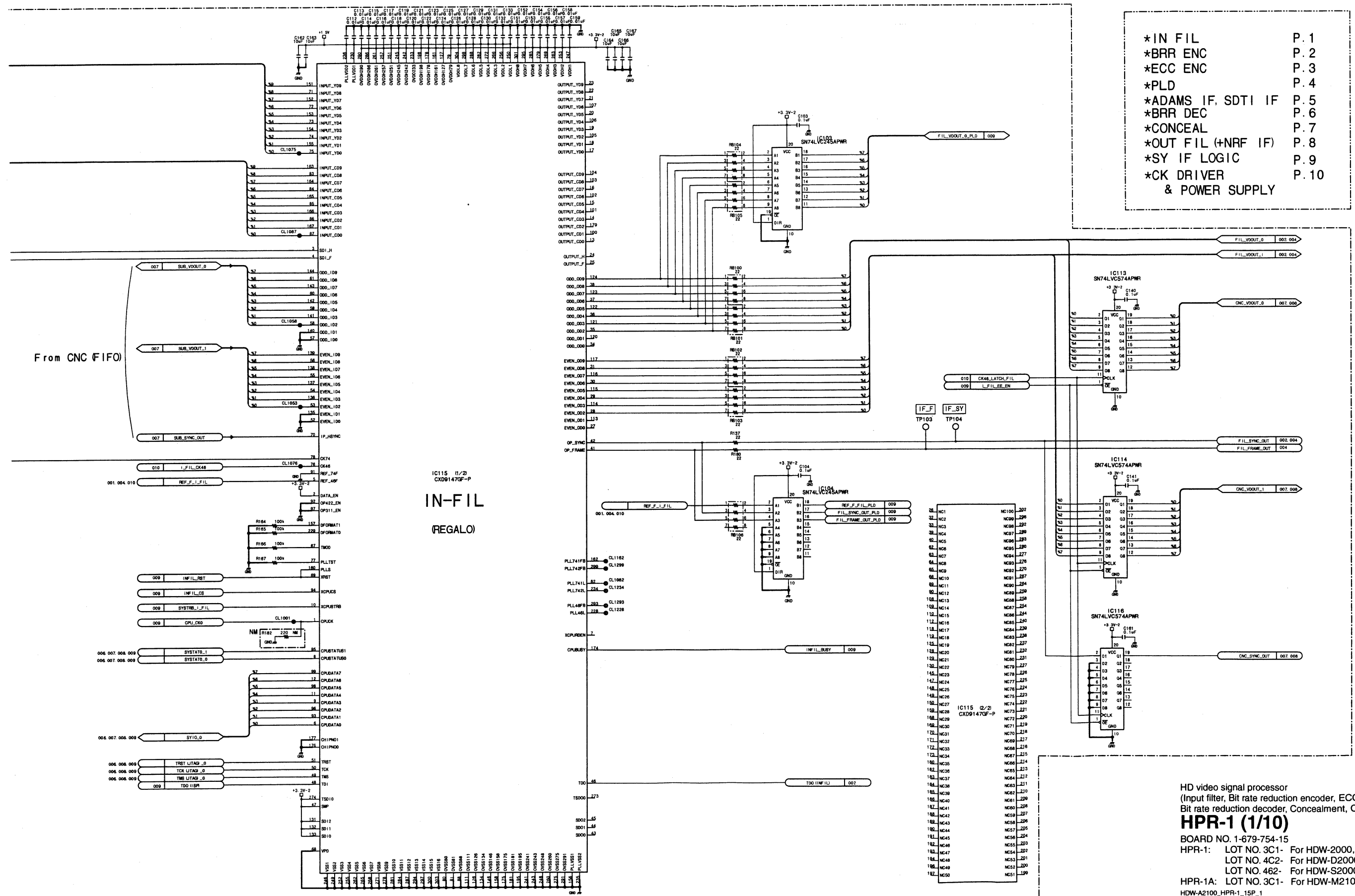


1-230 (b)

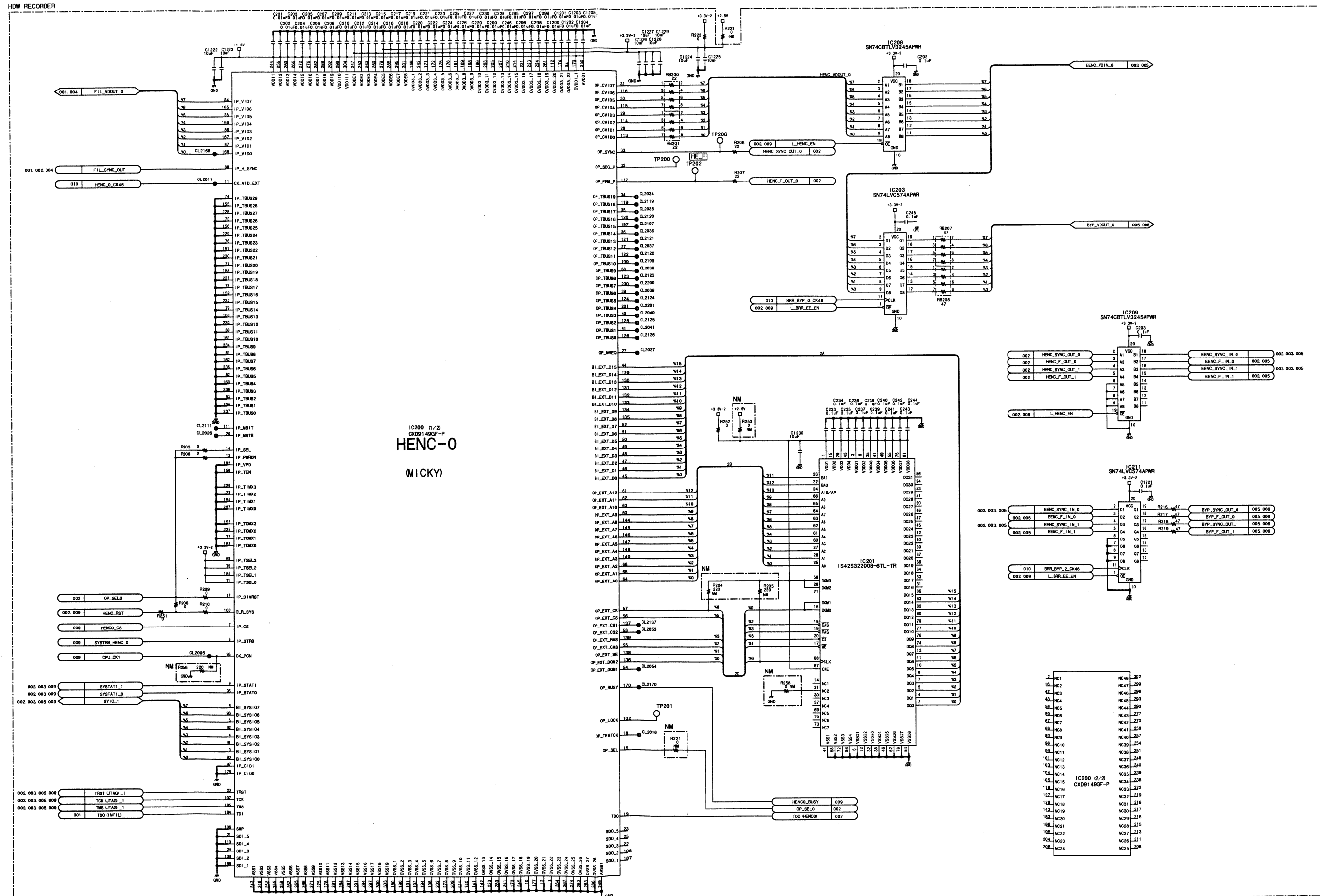
1-230 (b)

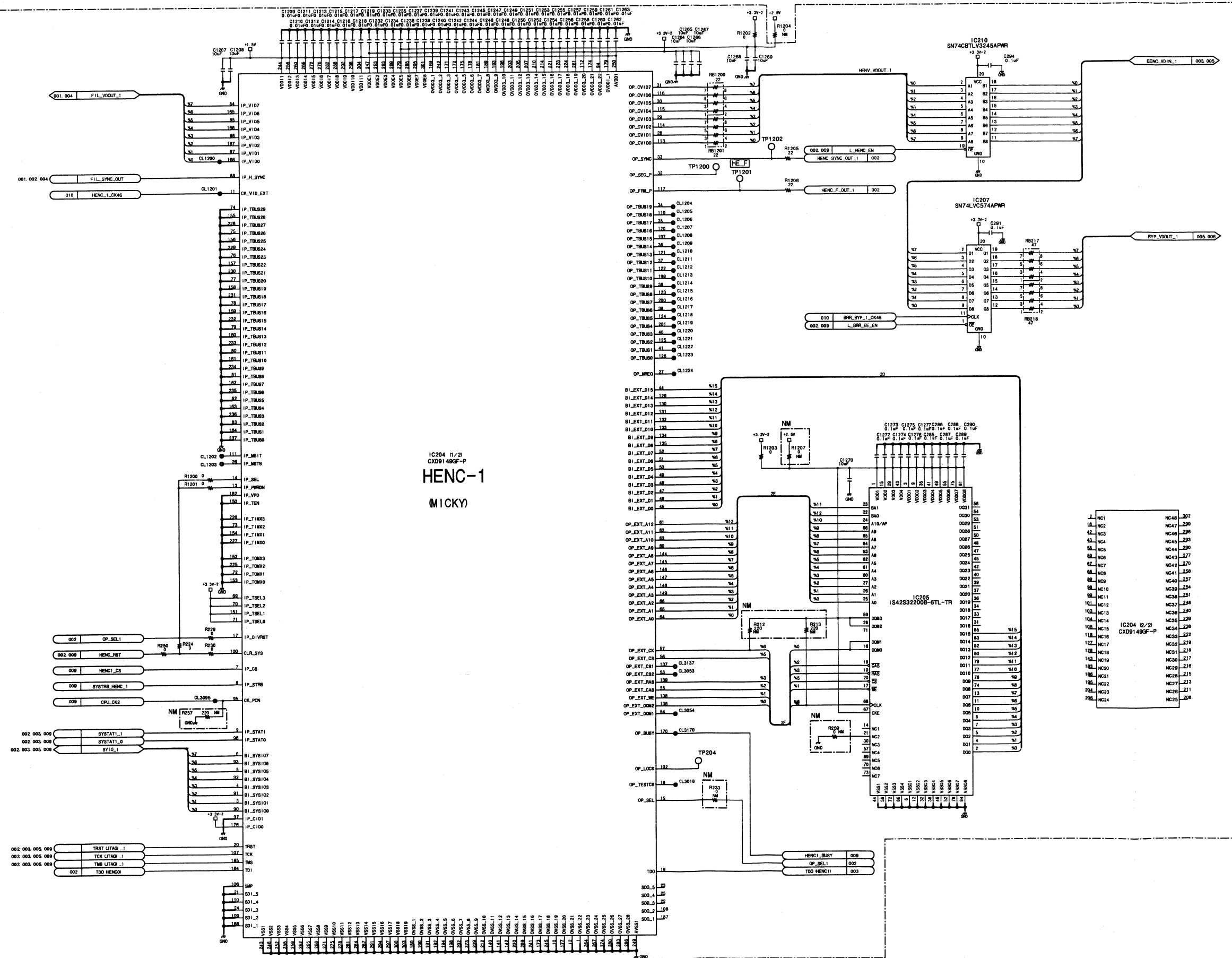
HDW series, DVW series, MSW series

- *IN FIL P.1
- *BRR ENC P.2
- *ECC ENC P.3
- *PLD P.4
- *ADAMS IF, SDT I IF P.5
- *BRR DEC P.6
- *CONCEAL P.7
- *OUT FIL (+NRF IF) P.8
- *SY IF LOGIC P.9
- *CK DRIVER P.10
- & POWER SUPPLY

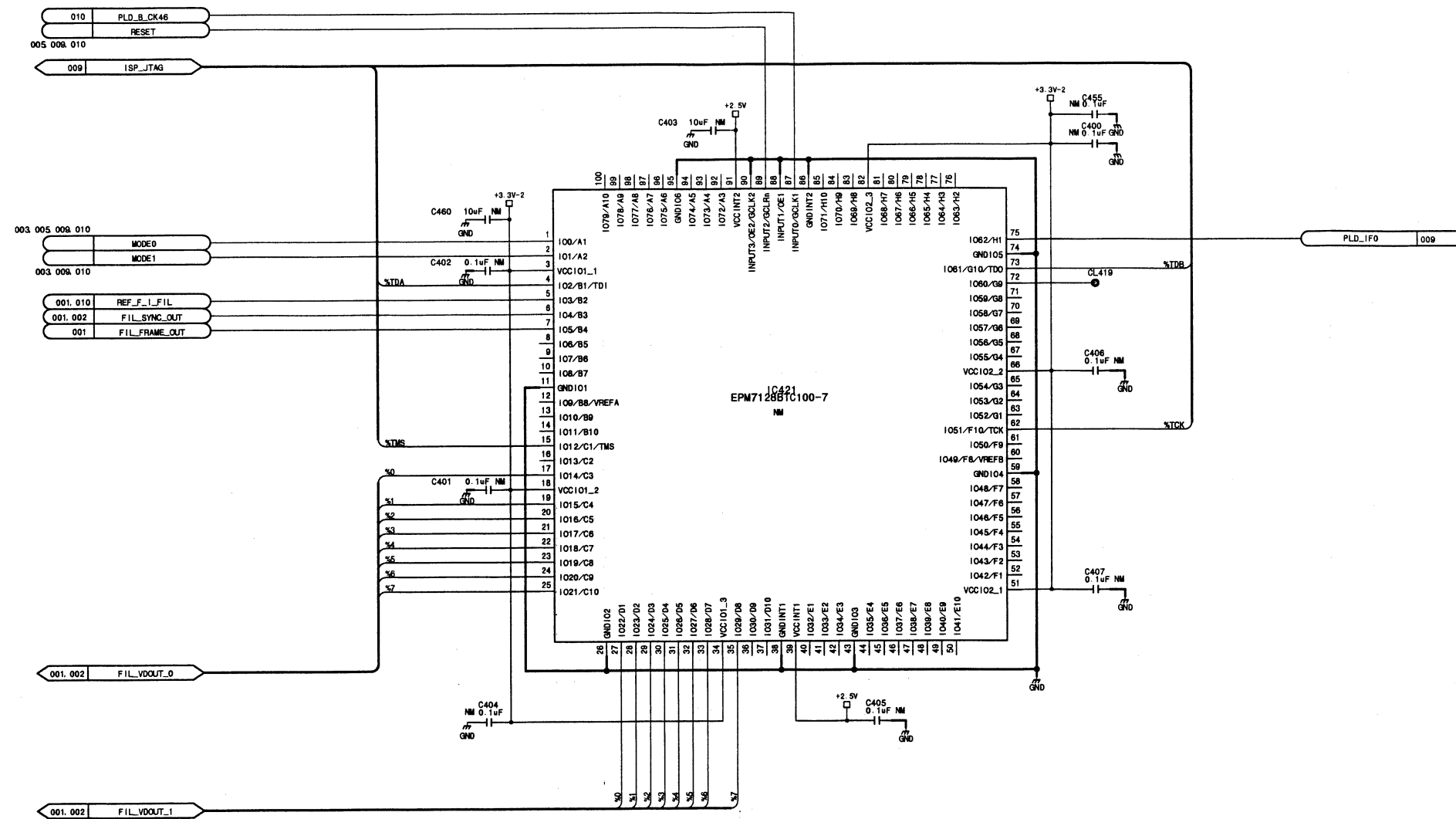


HOW RECORDER



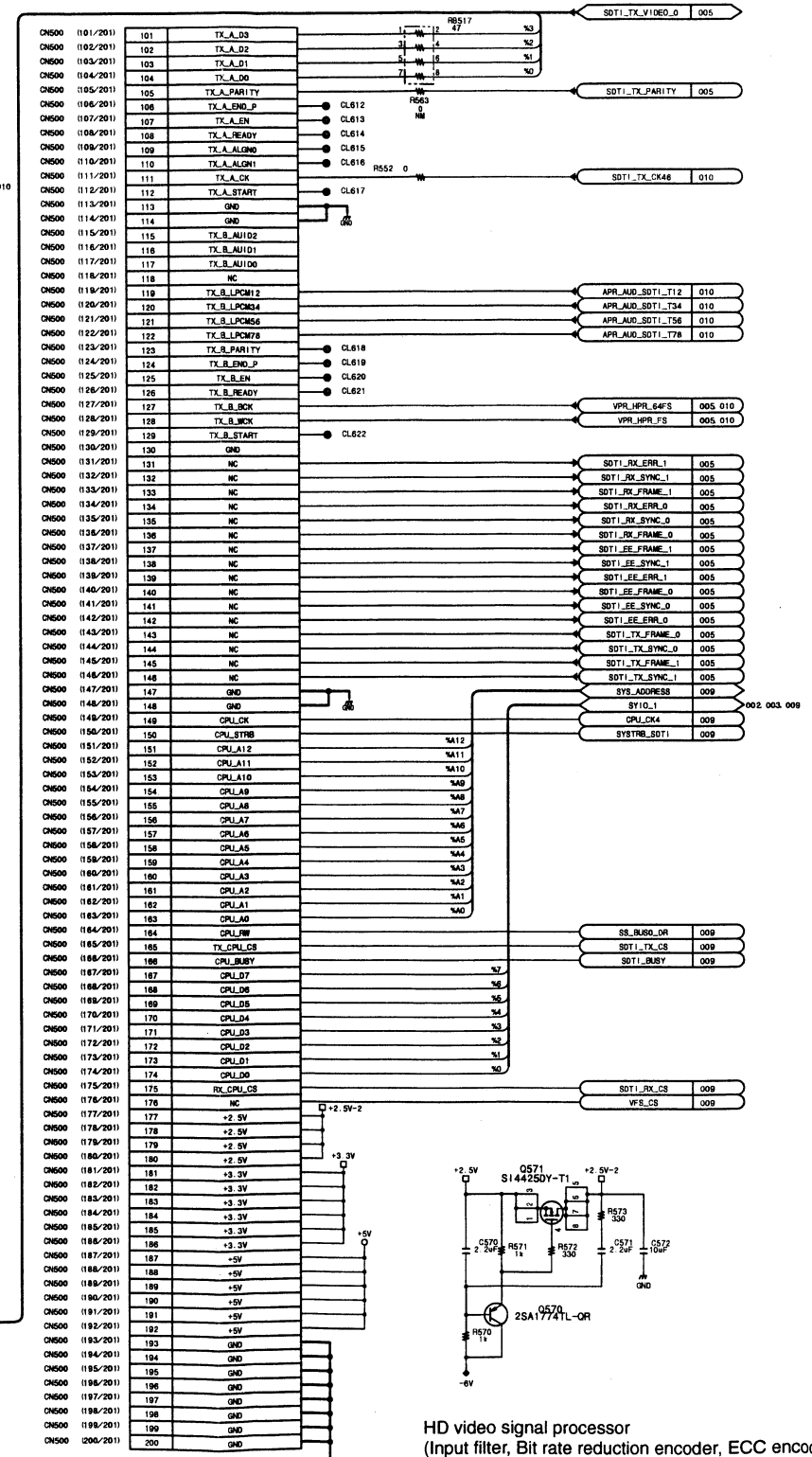
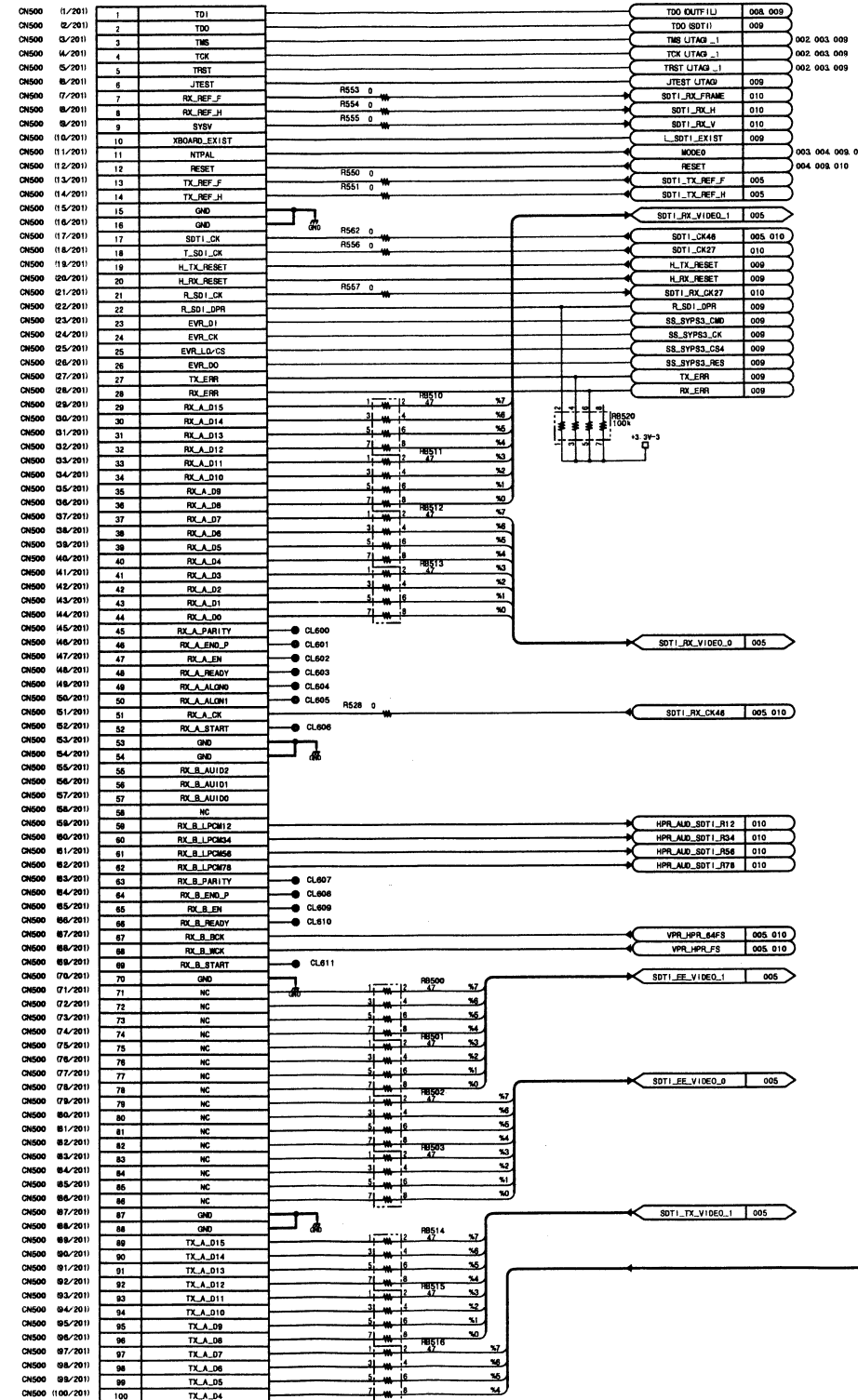
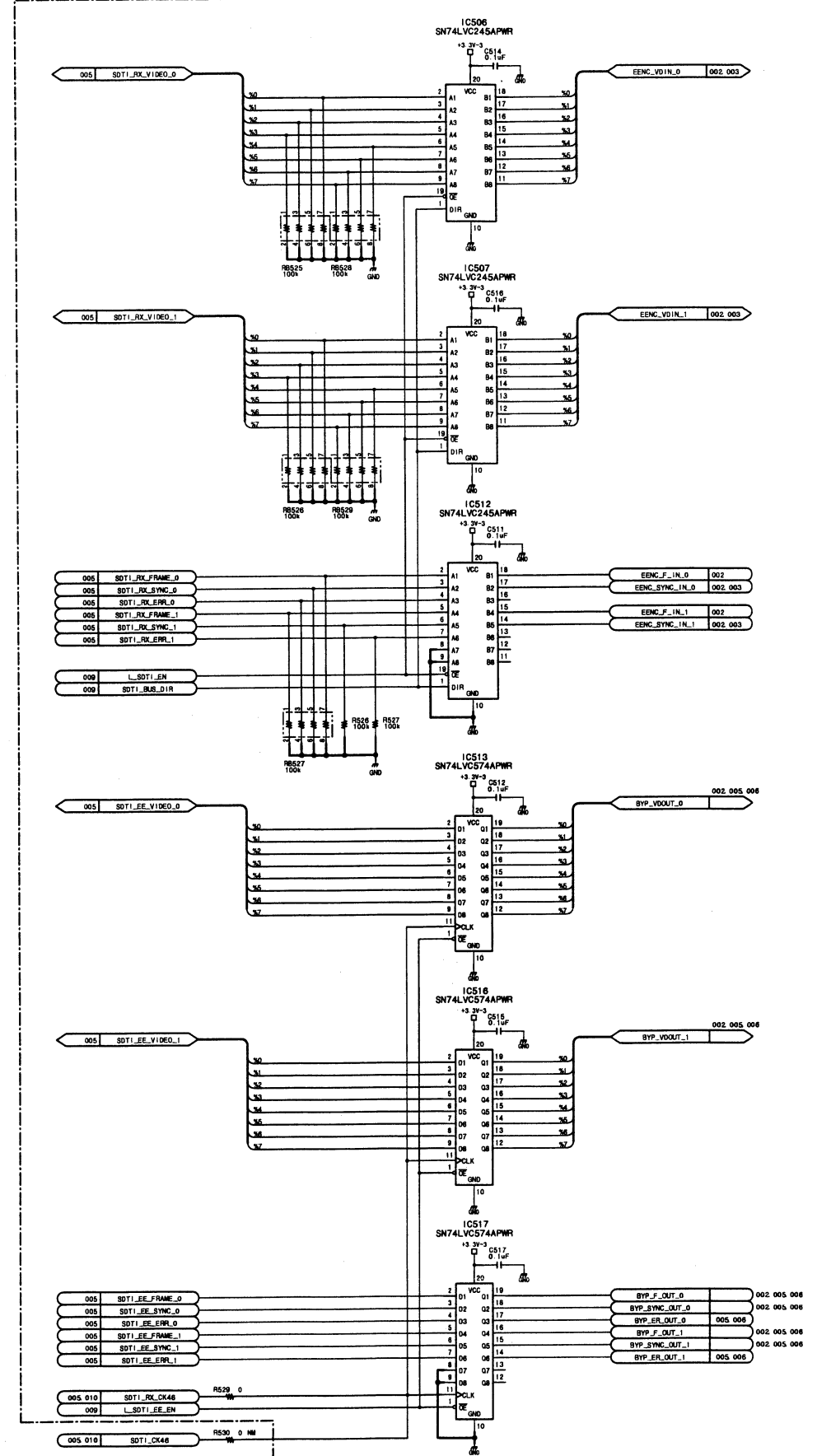


HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (2/10)
BOARD NO. 1-679-754-15
HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HDW-A2100_HPR-1_15P_2



HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (4/10)
BOARD NO. 1-679-754-15
HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HDW-A2100_HPR-1_15P_4

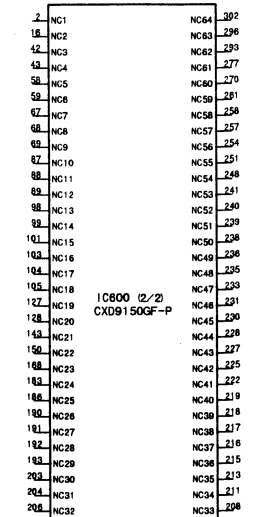
HDW RECORDER



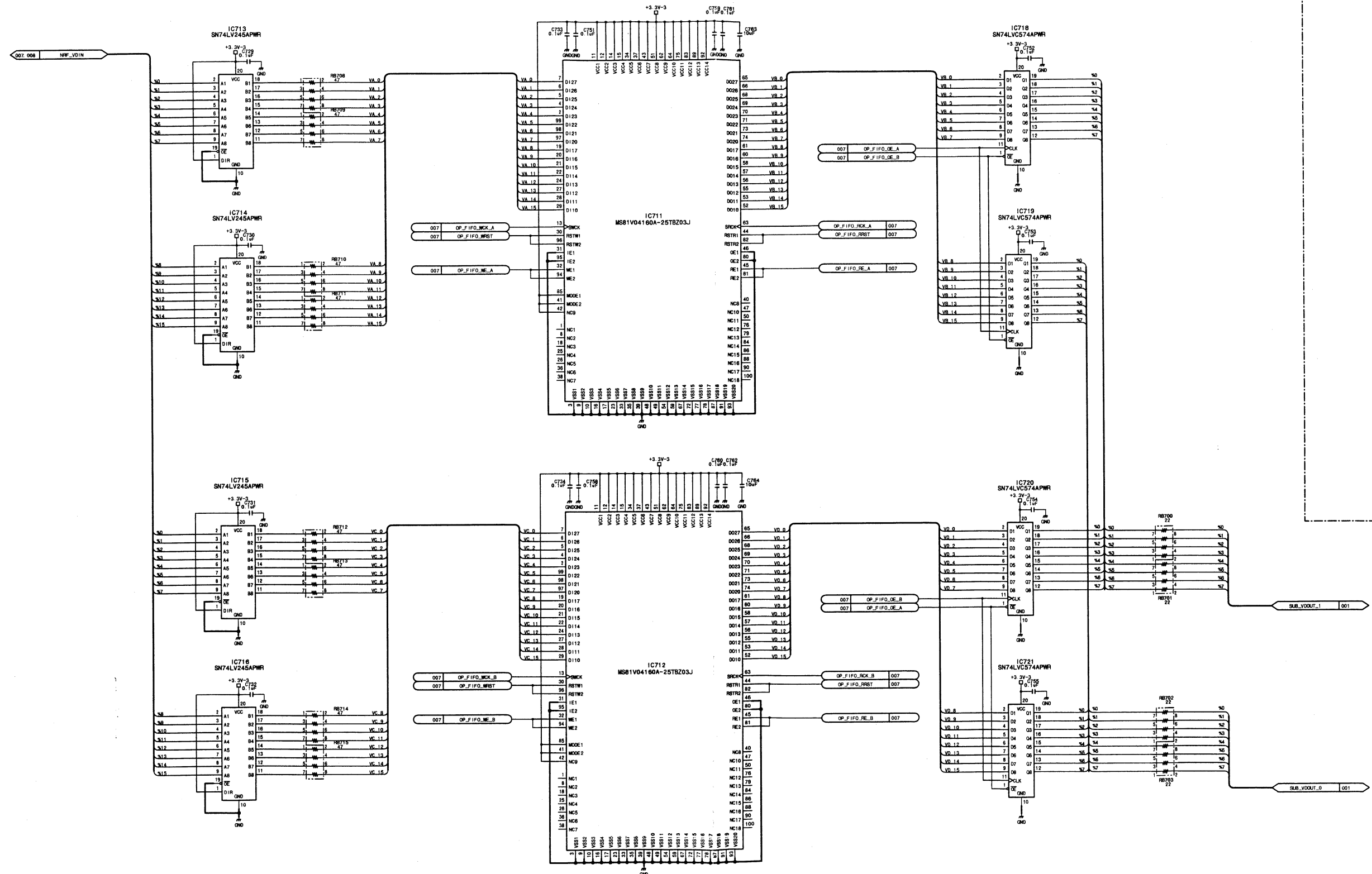
HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)

HPR-1 (5/10)

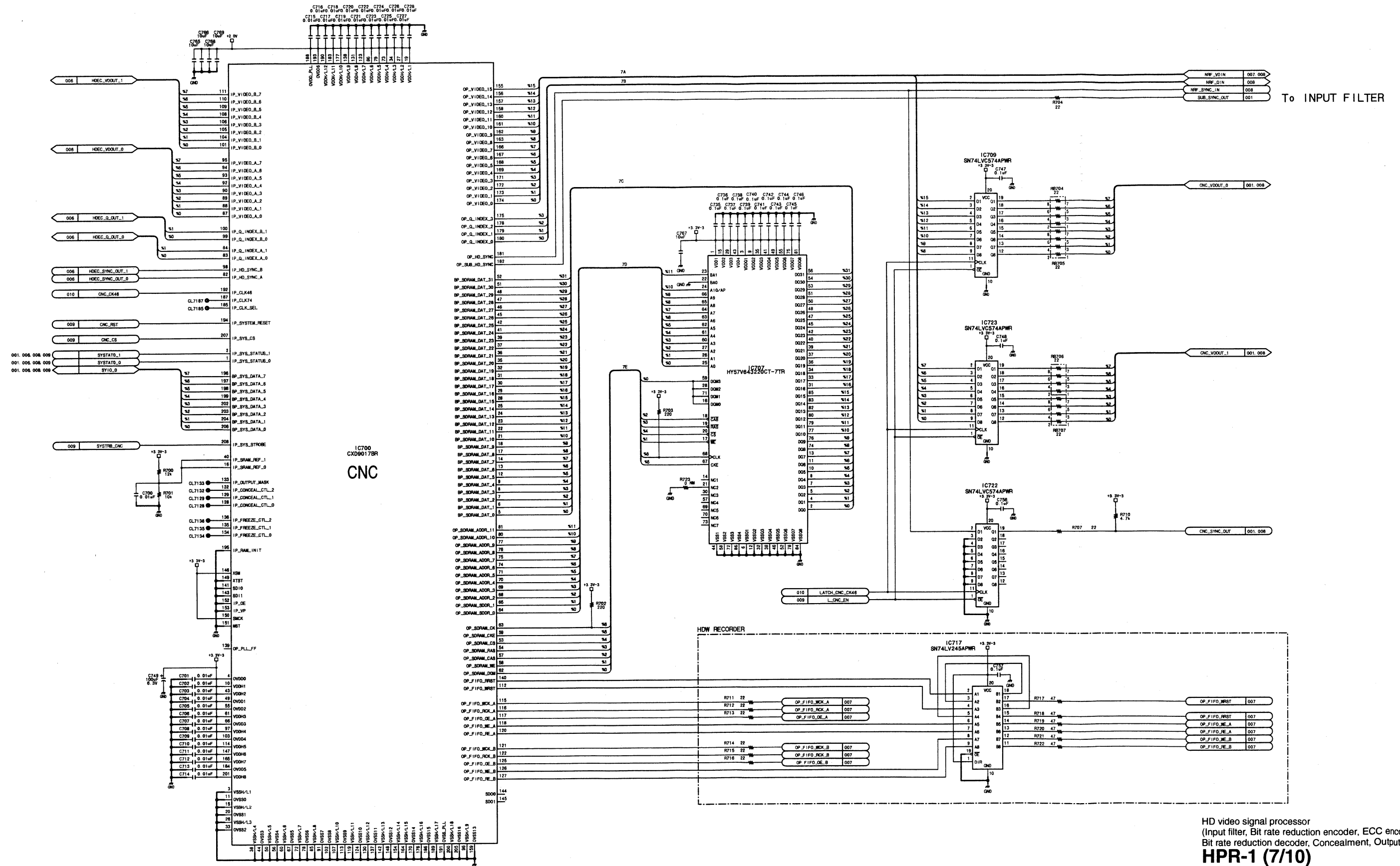
BOARD NO. 1-679-754-15
HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HDW-A2100_HPR-1_15P_5



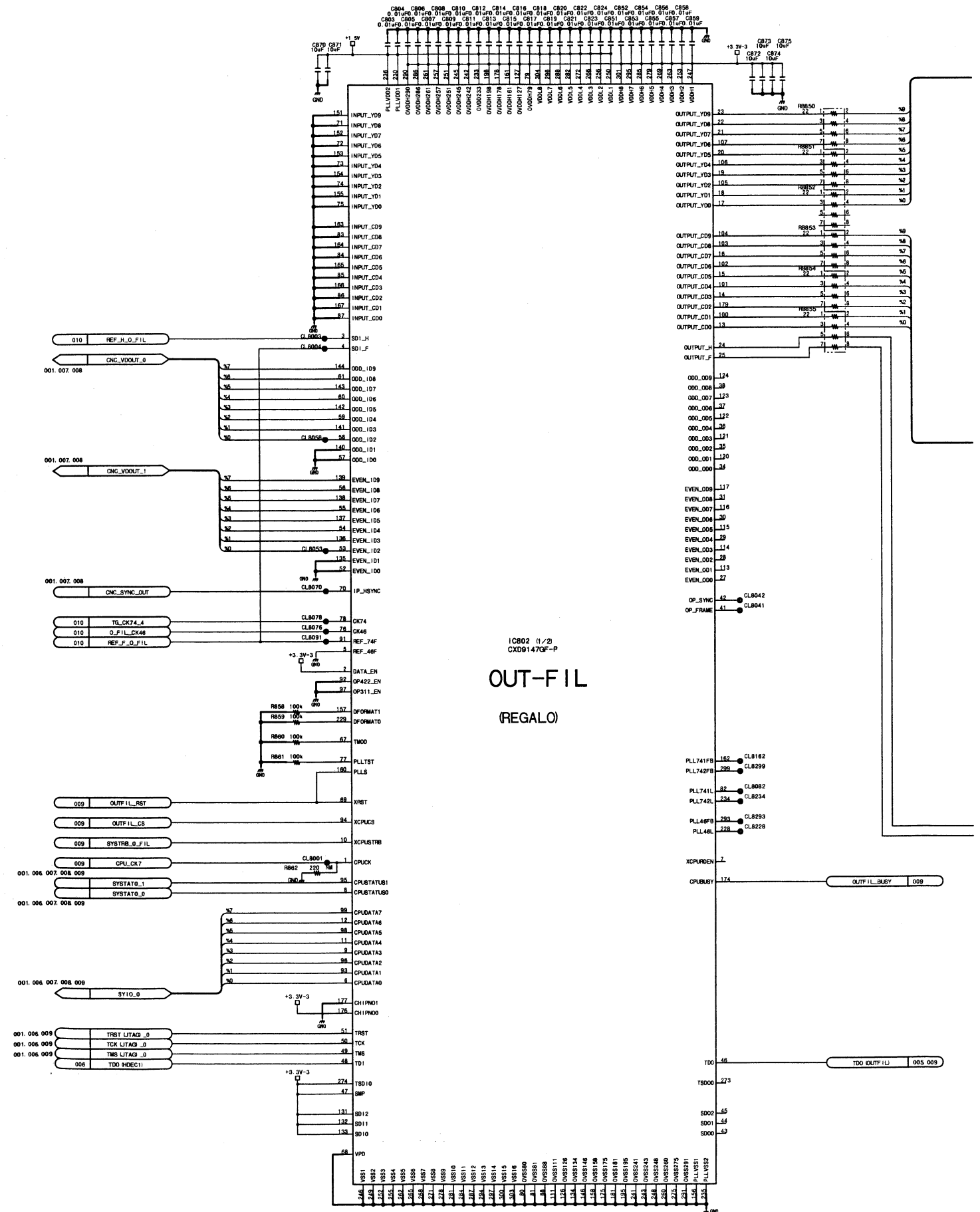
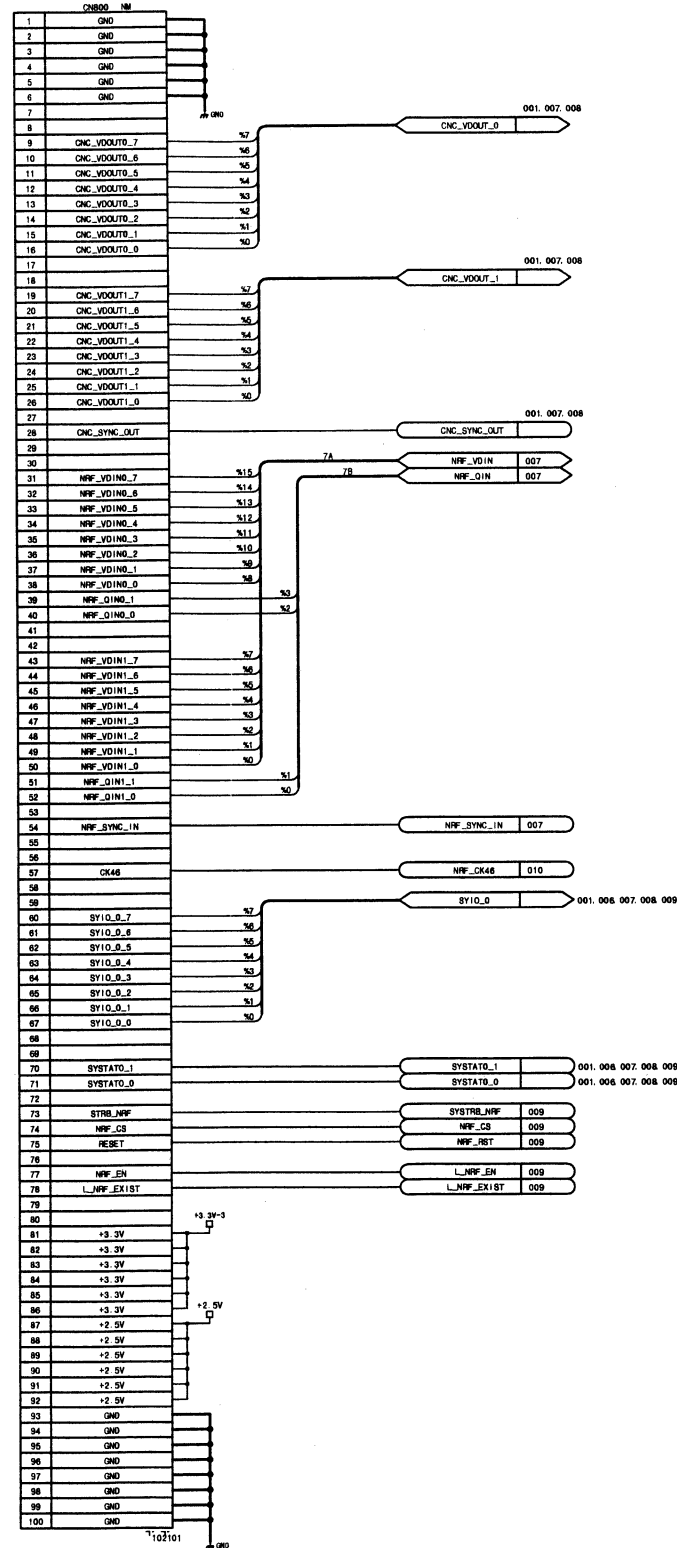
HDW RECORDER

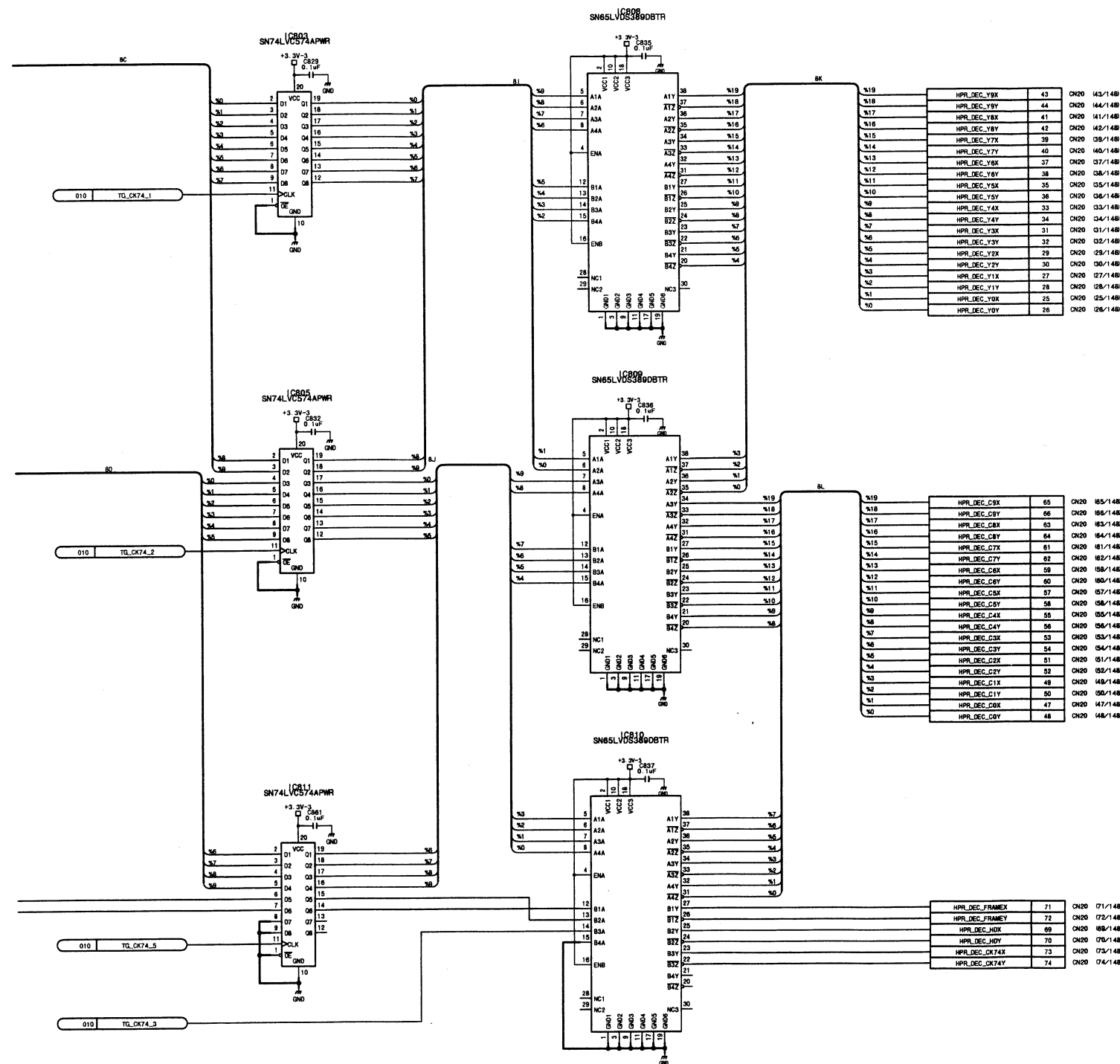


To INPUT FILTER



HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (7/10)
BOARD NO. 1-679-754-15
HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HDW-A2100_HPR-1_15P_7





1-243 (b)

1-243 (b)

HDW series, DVW series, MSW series

HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)

HPR-1 (8/10)

BOARD NO. 1-679-754-15

HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P

LOT NO. 4C2- For HDW-D2000

LOT NO. 462- For HDW-S2000/P

HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100

HDW-A2100_HPR-1_15P_8

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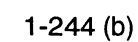
M

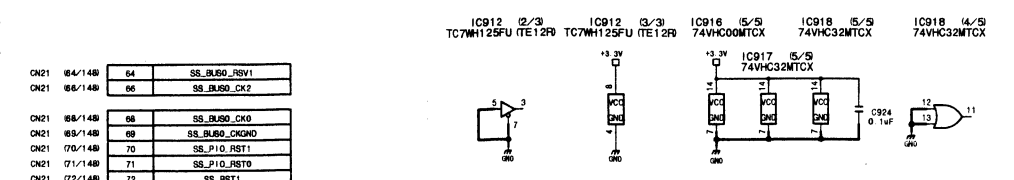
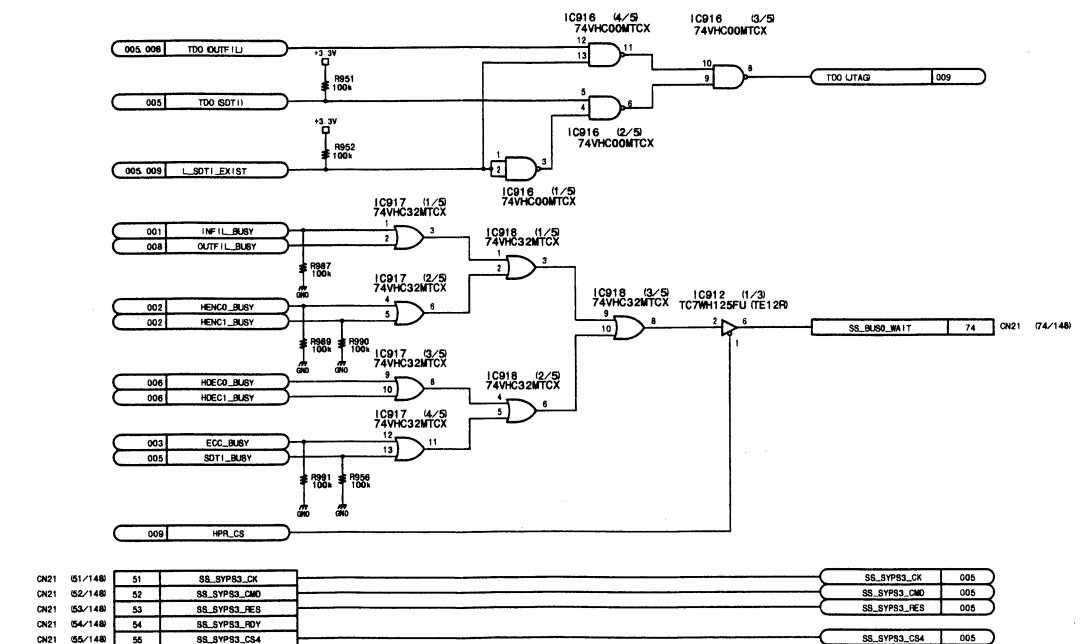
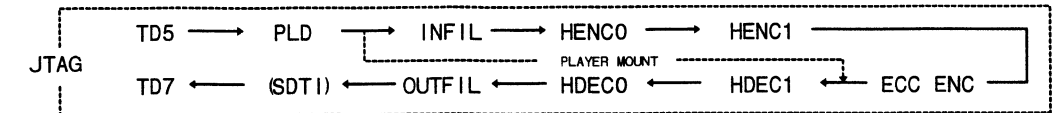
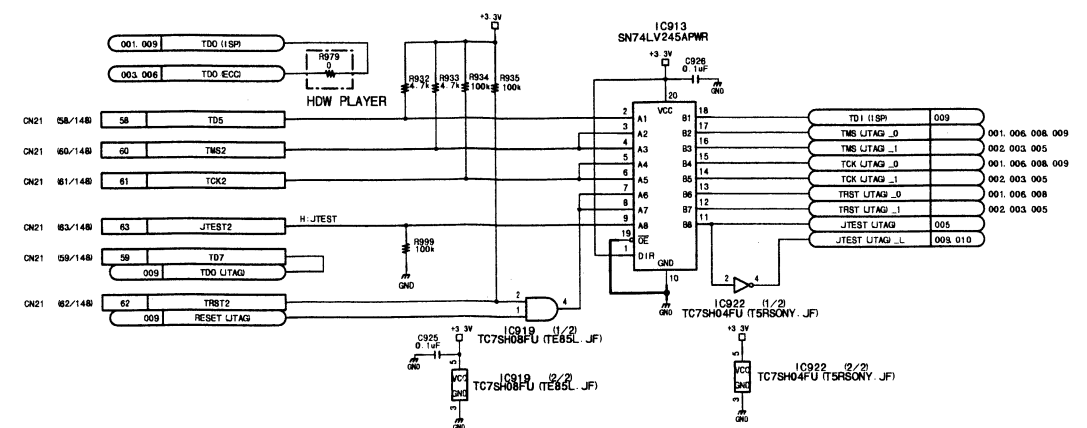
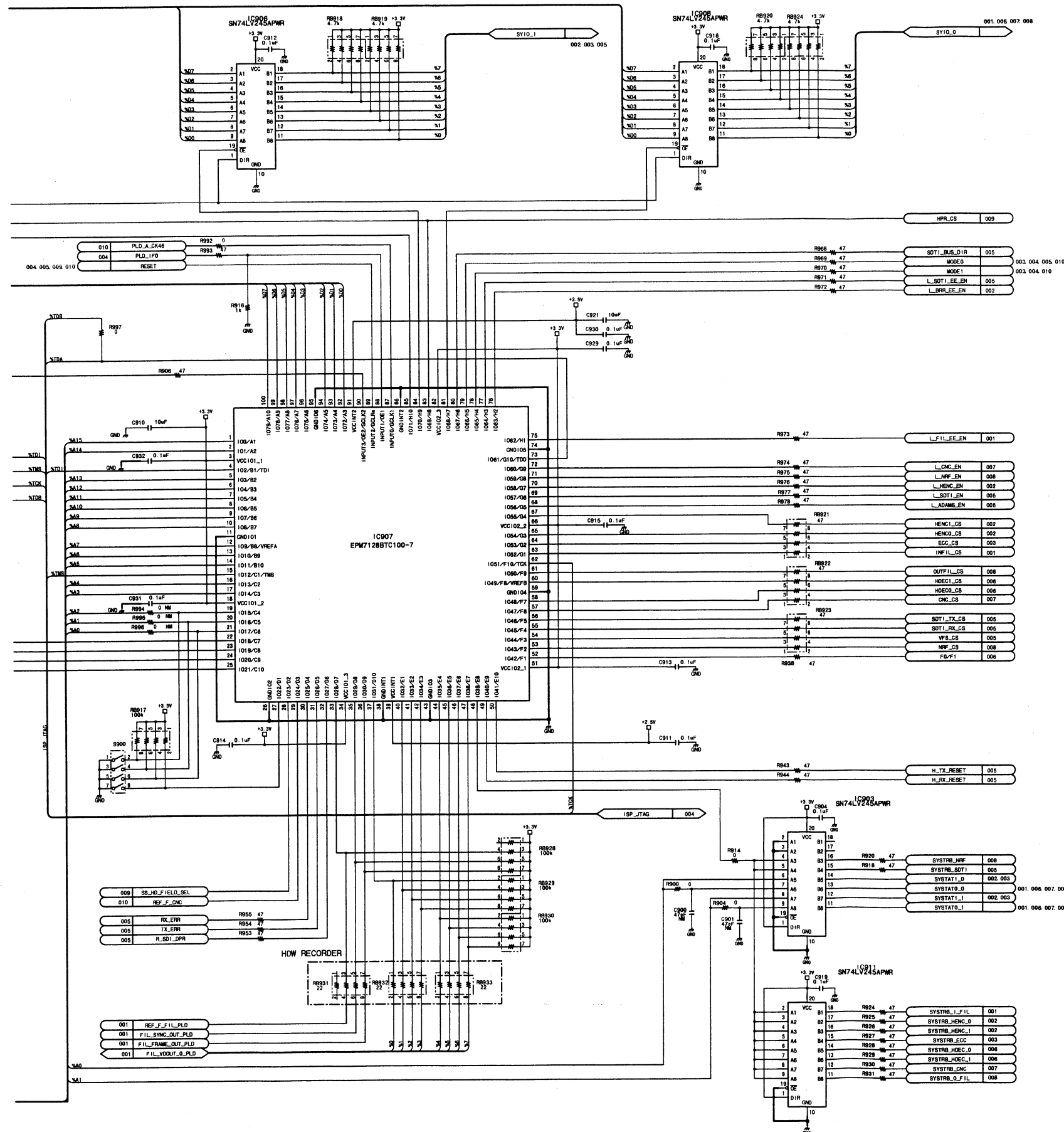
N

O

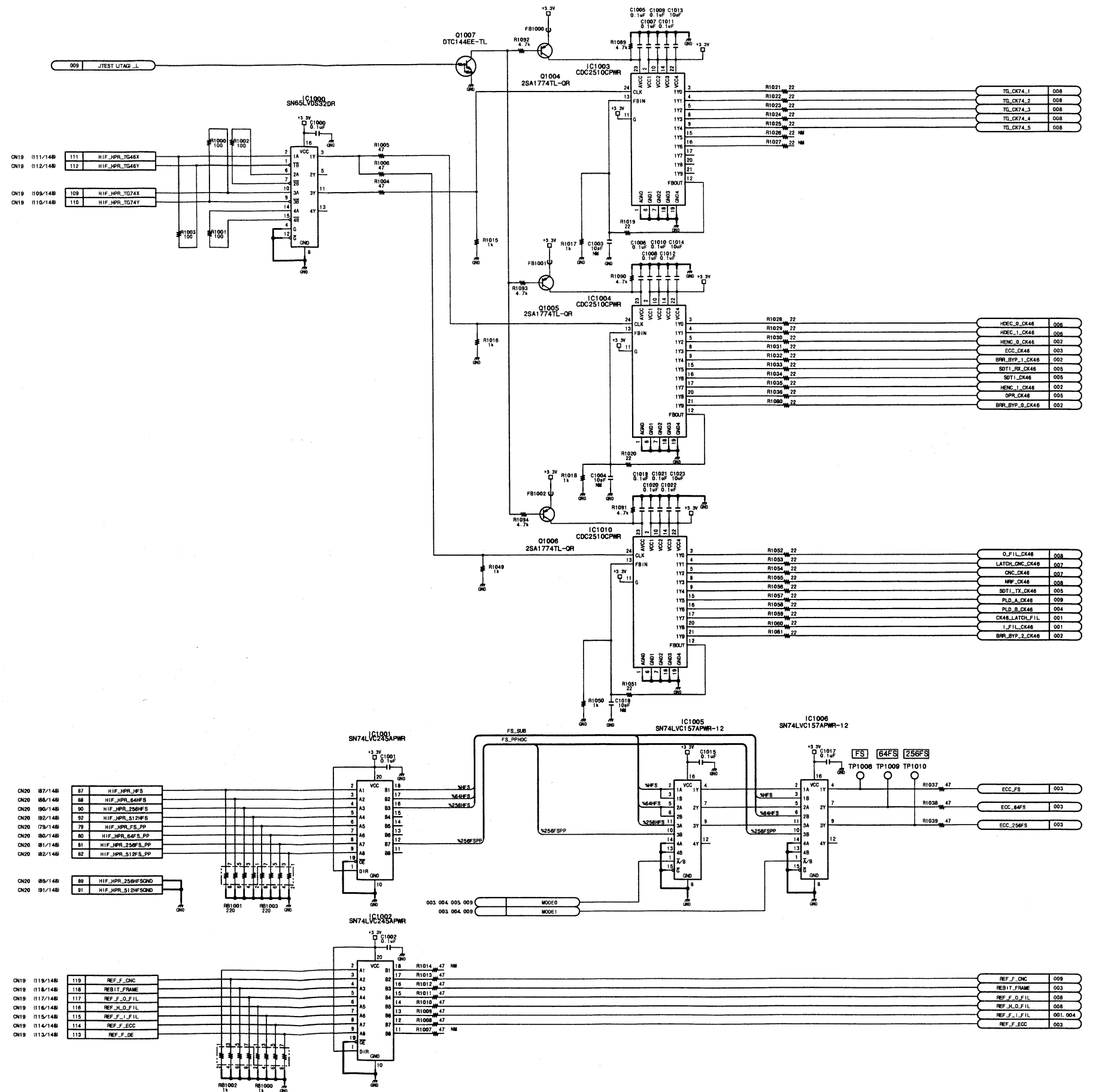
P

HPR-1 (9/10) HDW
SUFFIX: -15



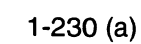


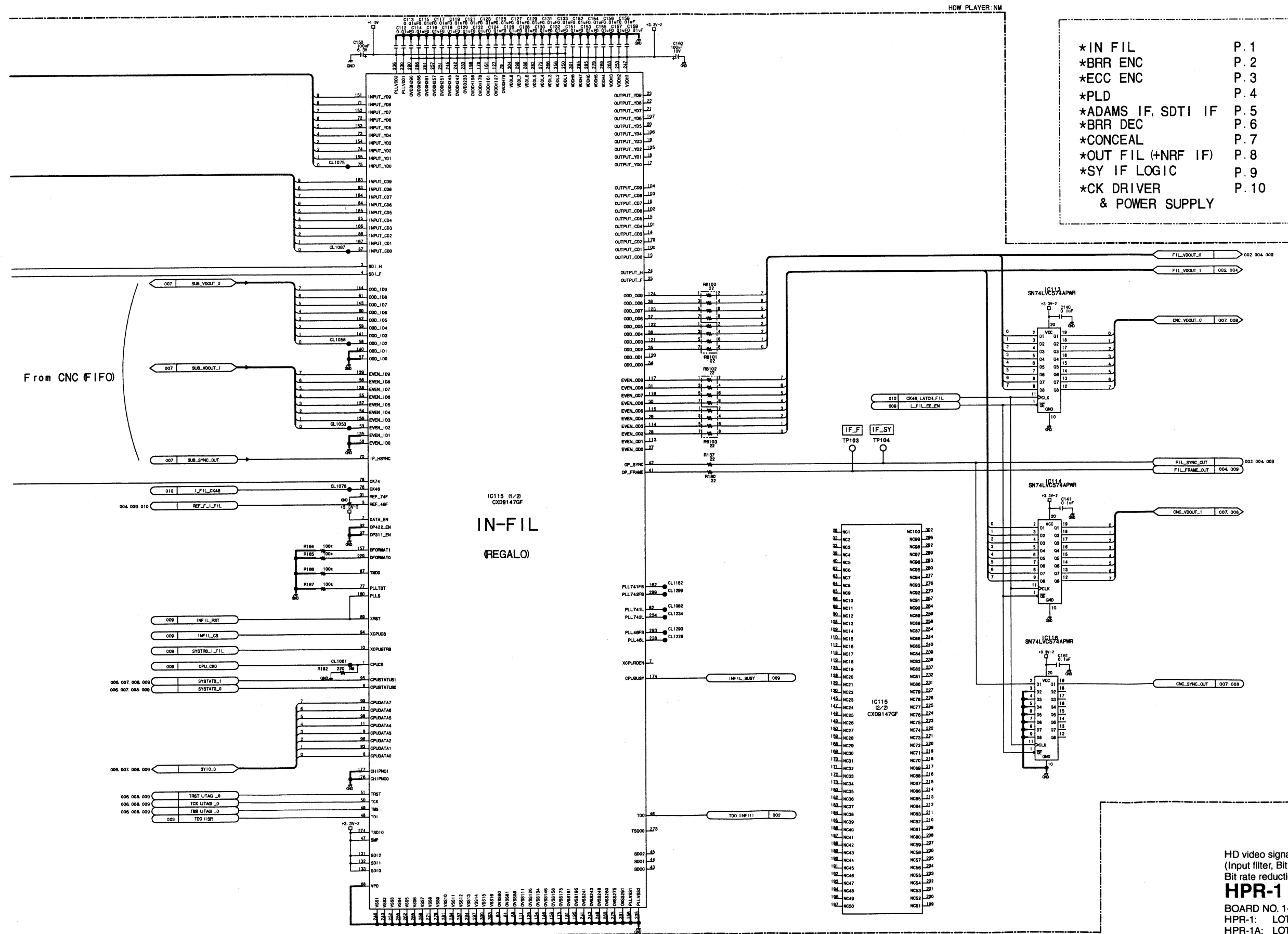
HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (9/10)
BOARD NO. 1-679-754-15
HPR-1: LOT NO. 3C1- For HDW-2000, M2000/P
LOT NO. 4C2- For HDW-D2000
LOT NO. 462- For HDW-S2000/P
HPR-1A: LOT NO. 3C1- For HDW-M2100/P, A2100
HDW-A2100_HPR-1_15P_9



1-246 (b)

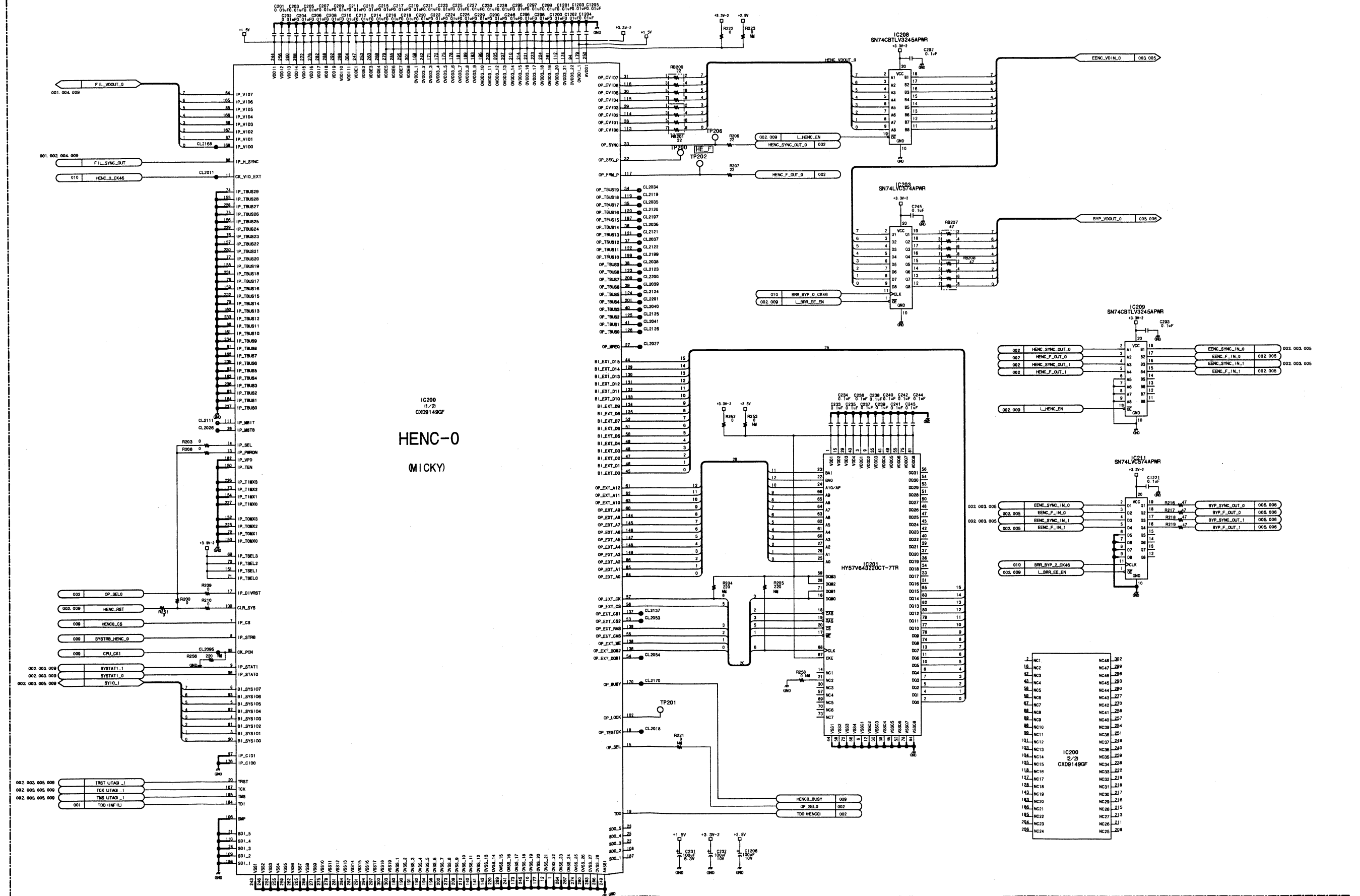
1-246 (b)

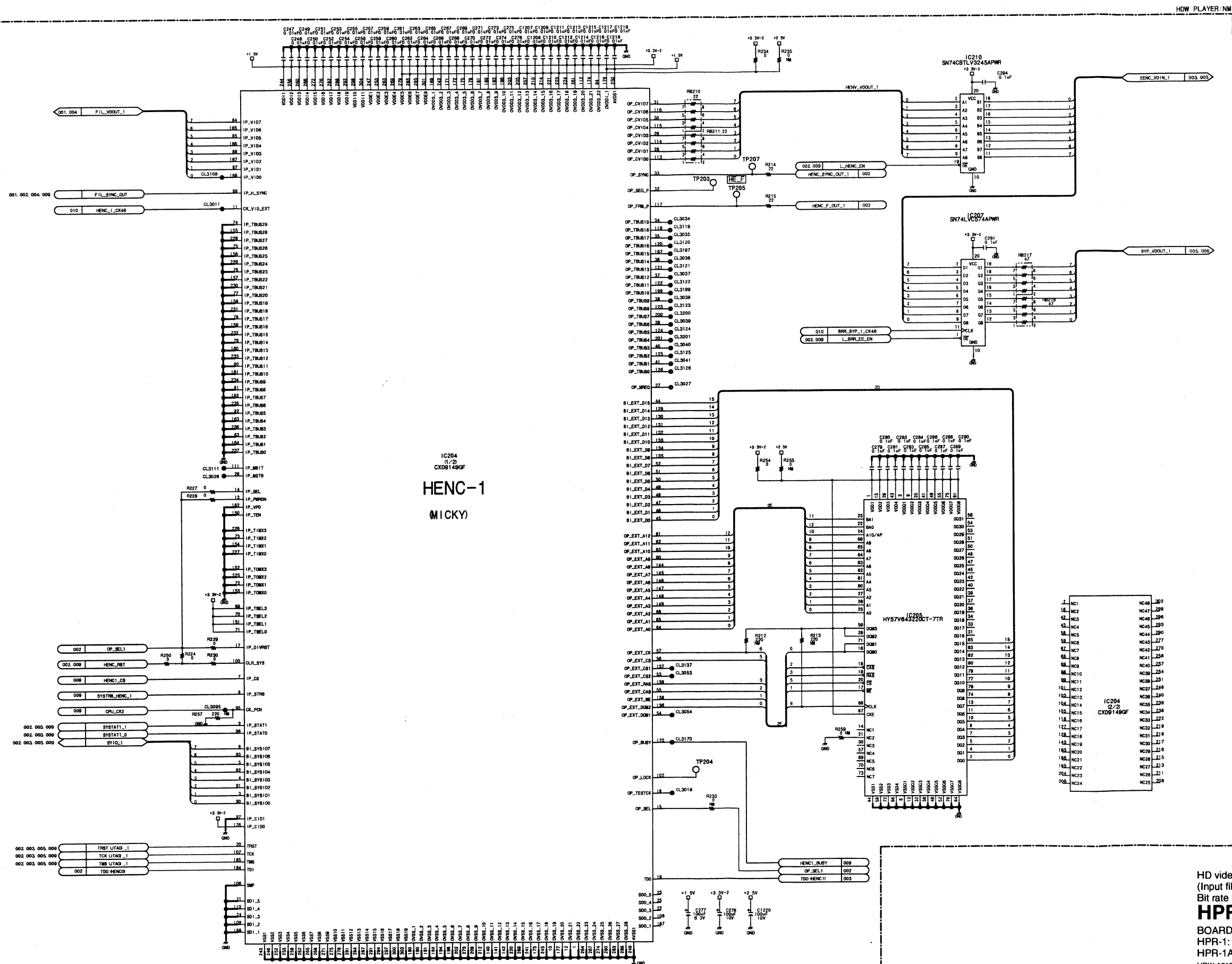




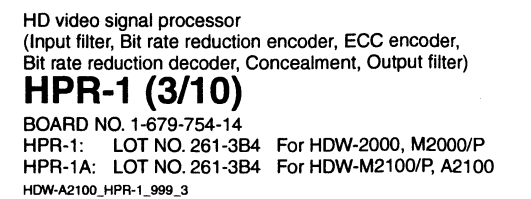
HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (1/10)
BOARD NO. 1-679-754-14
HPR-1: LOT NO. 261-3B4 For HDW-2000, M2000/P
HPR-1A: LOT NO. 261-3B4 For HDW-M2100/P, A2100
HDW-A2100_HPR-1_999_1

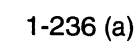
HDW PLAYER:NM



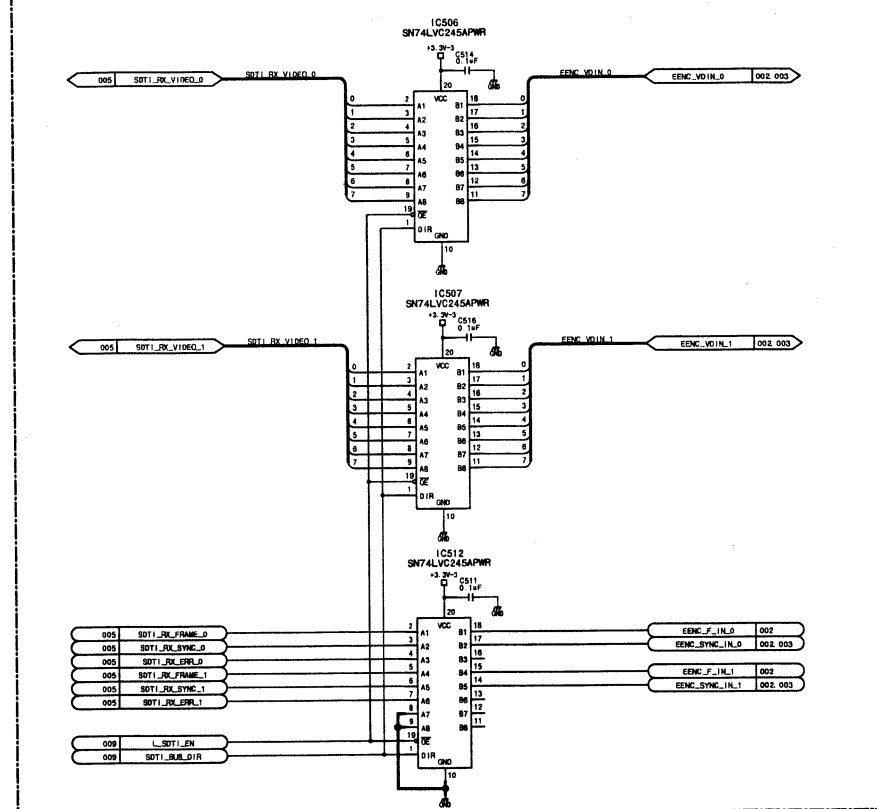


HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (2/10)
BOARD NO. 1-679-754-14
HPR-1: LOT NO. 261-3B4 For HDW-2000, M2000/P
HPR-1A: LOT NO. 261-3B4 For HDW-M2100/P, A2100
HDW-A2100_HPR-1_999_2

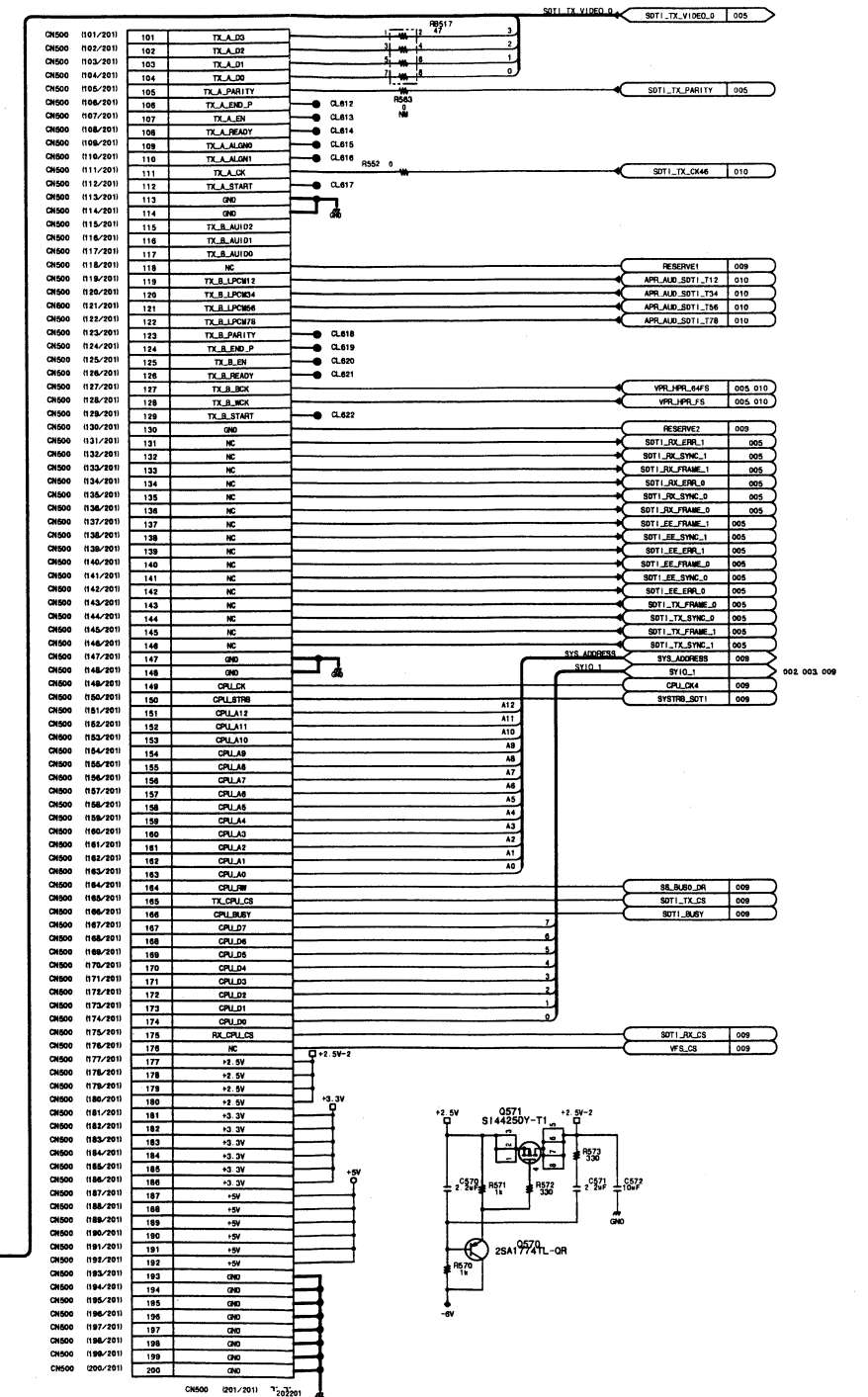
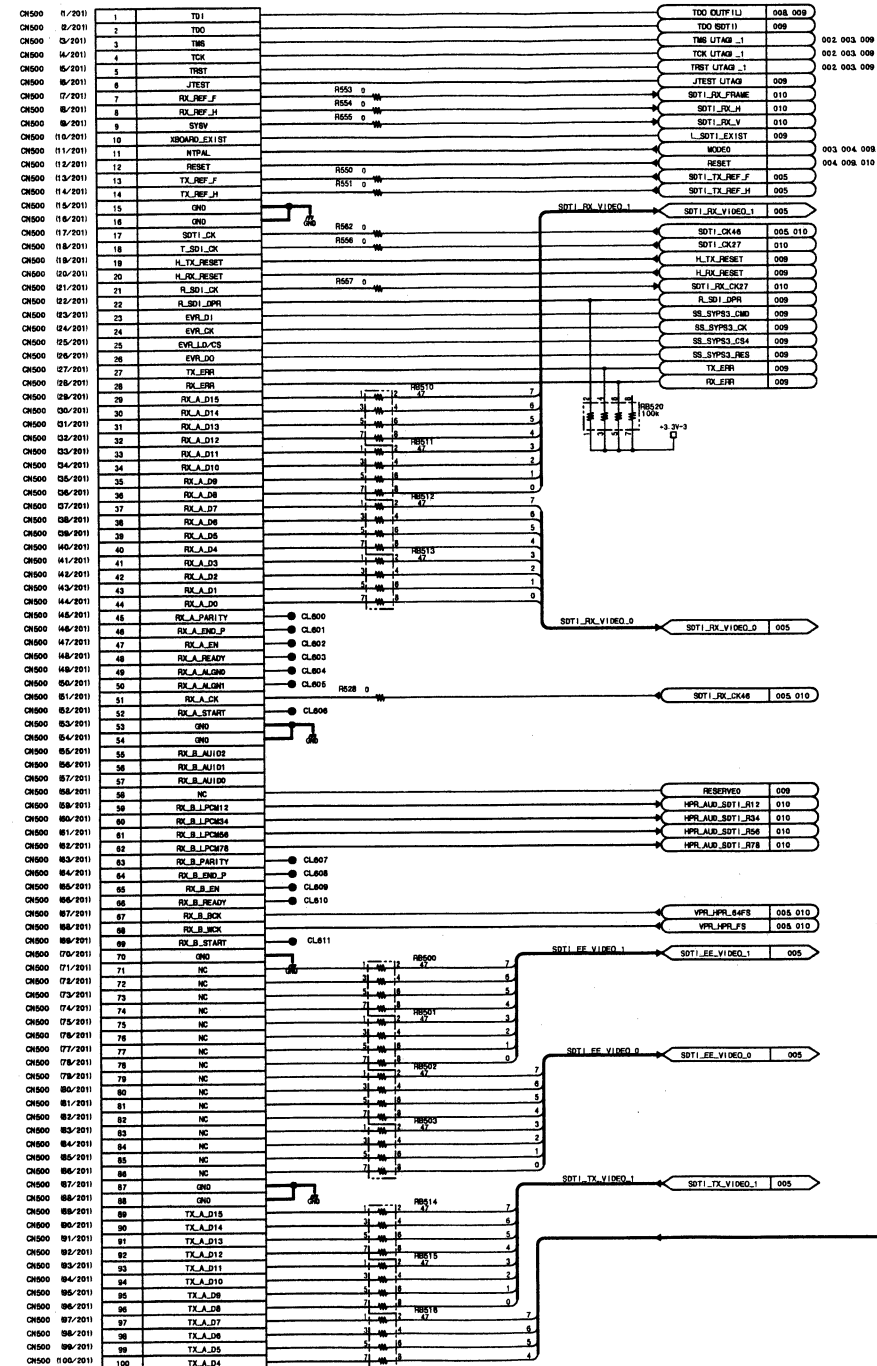
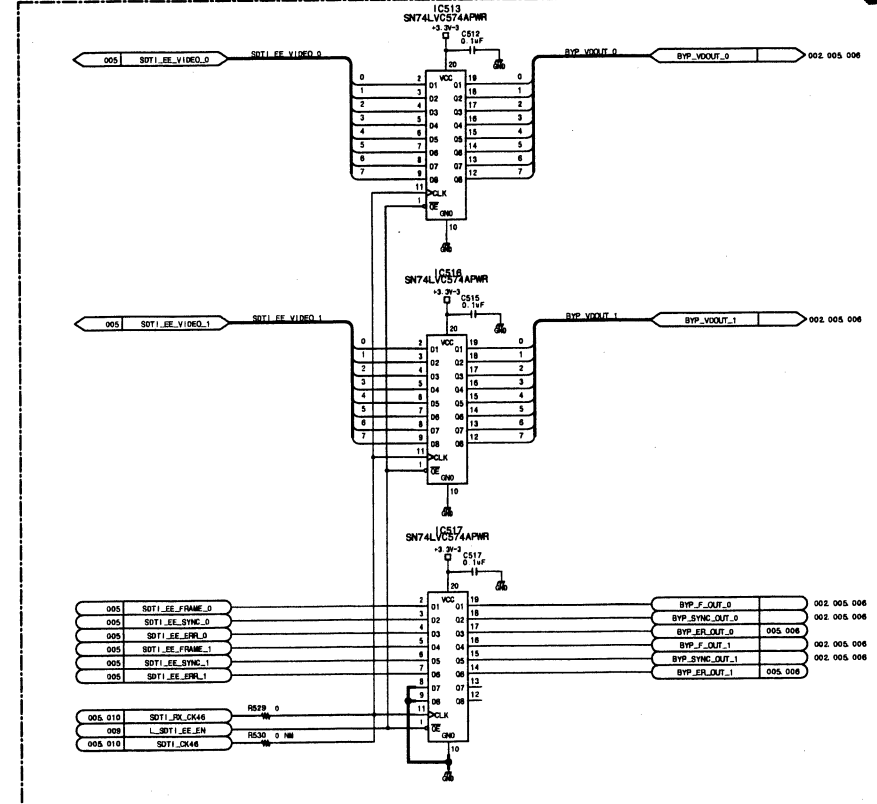


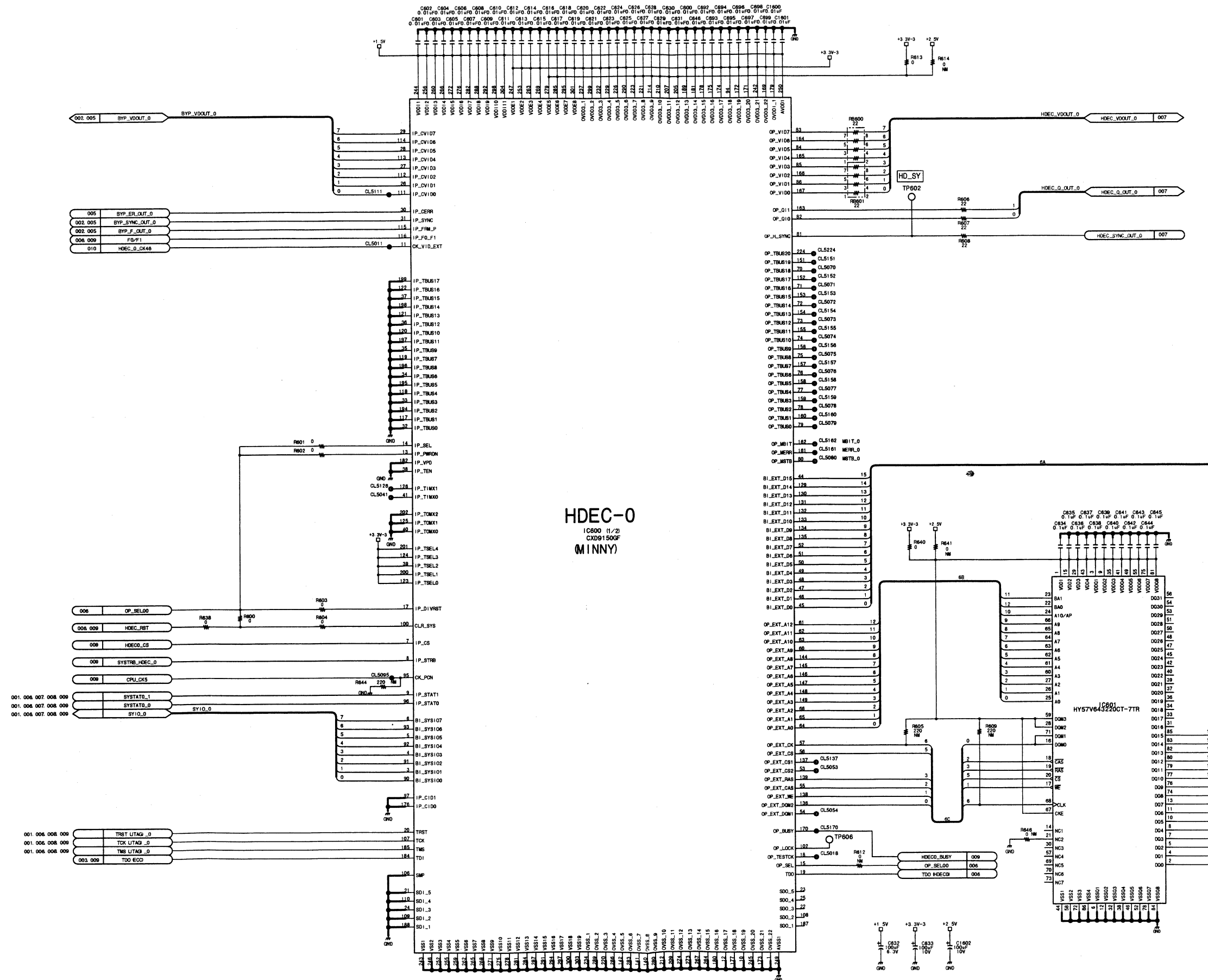


HOW PLAYER: NM



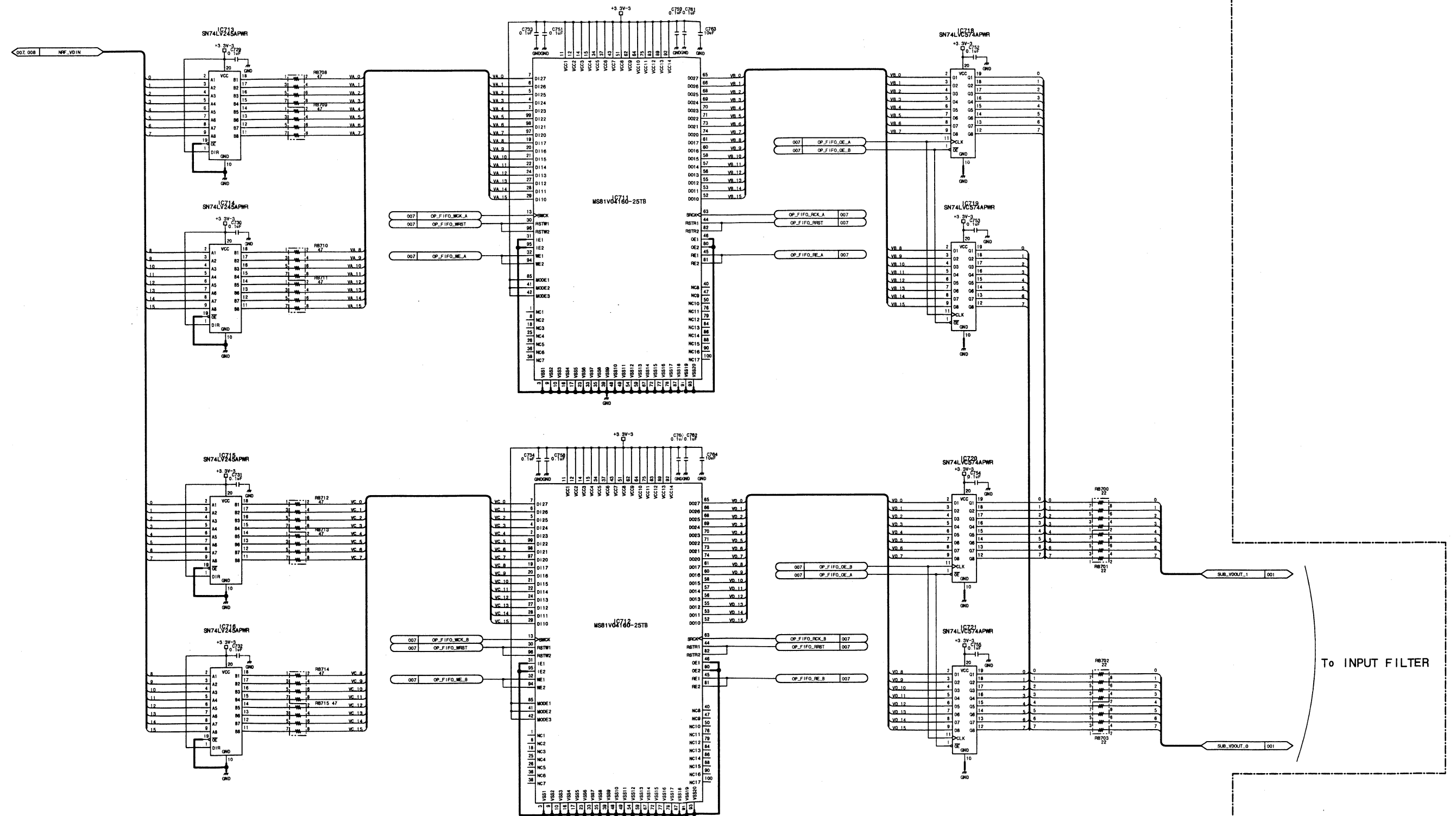
HOW PLAYER LOT NO 261-313: NM

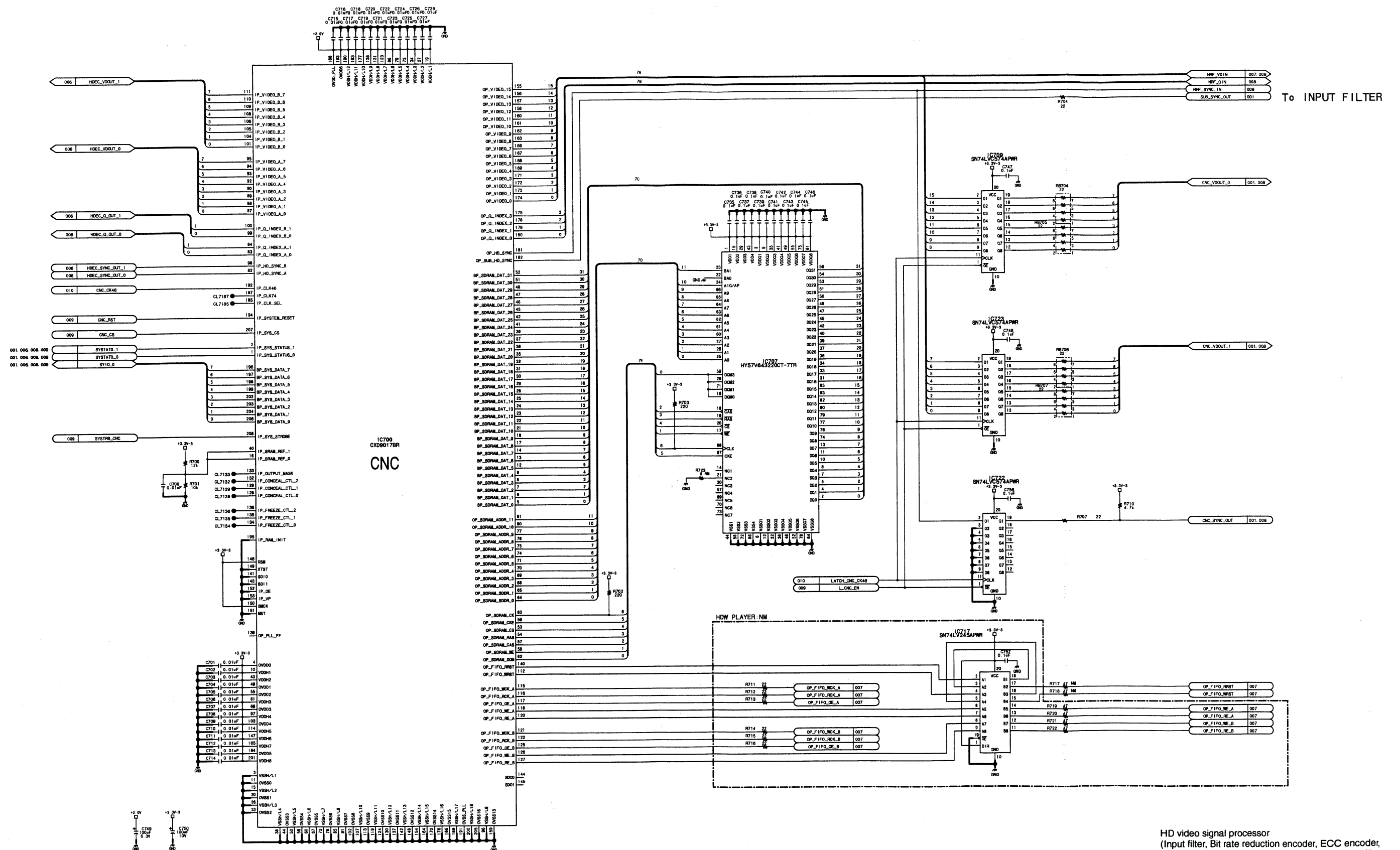




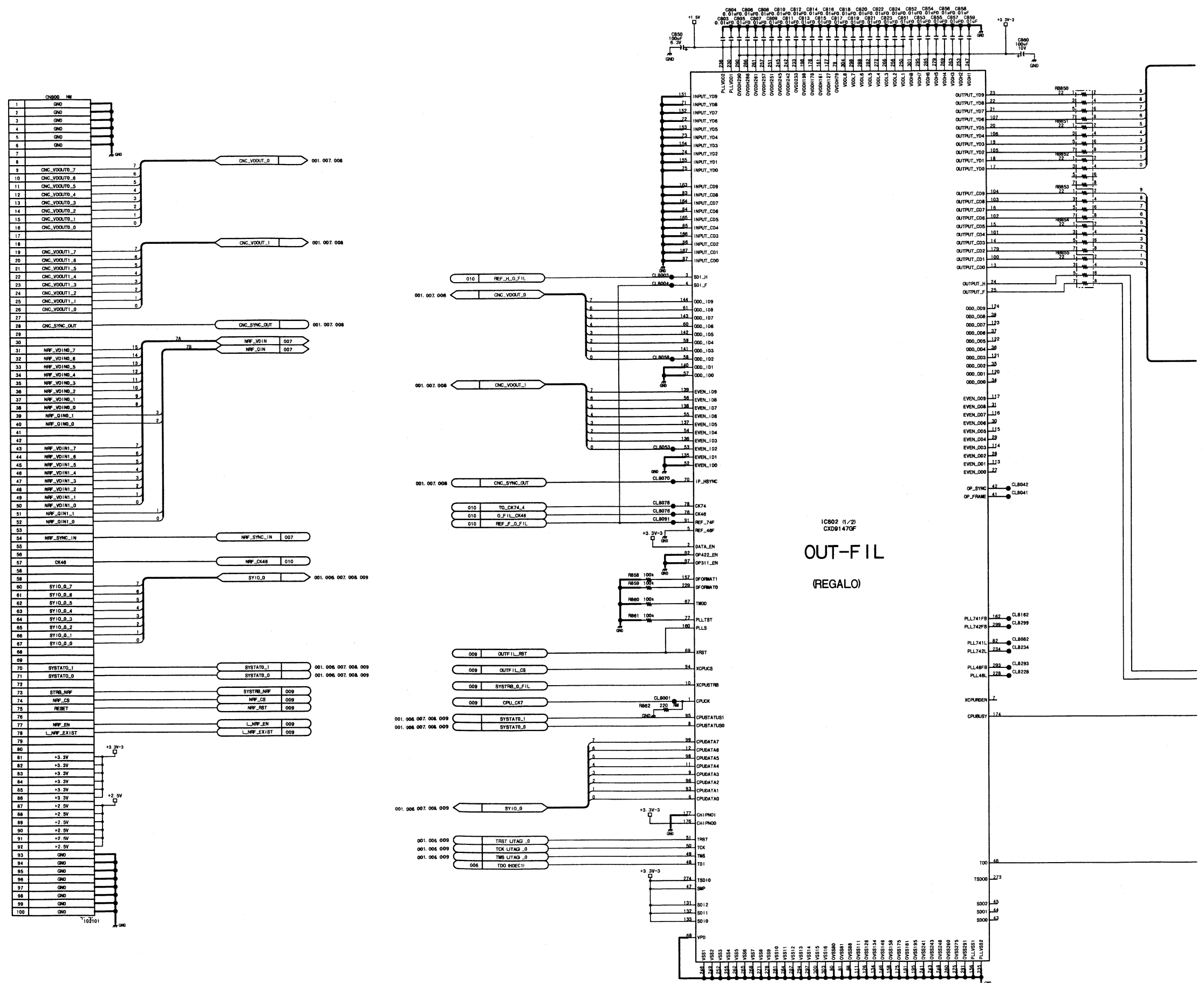
2	NC1	NC84	302
16	NC2	NC83	296
42	NC3	NC82	293
64	NC4	NC81	277
58	NC5	NC80	270
59	NC6	NC79	281
67	NC7	NC78	258
68	NC8	NC57	257
69	NC9	NC56	254
87	NC10	NC55	251
88	NC11	NC54	248
89	NC12	NC53	241
90	NC13	NC52	240
91	NC14	NC51	239
101	NC15	NC50	238
103	NC16	NC49	236
104	NC17	NC48	235
105	NC18	NC47	233
127	NC19	NC46	231
128	NC20	NC45	230
143	NC21	NC44	228
150	NC22	NC43	227
168	NC23	NC42	225
183	NC24	NC41	222
186	NC25	NC40	219
190	NC26	NC39	218
191	NC27	NC38	216
193	NC28	NC37	215
203	NC29	NC36	213
204	NC30	NC35	211
208	NC31	NC34	211
208	NC32	NC33	208

HDW PLAYER: NM





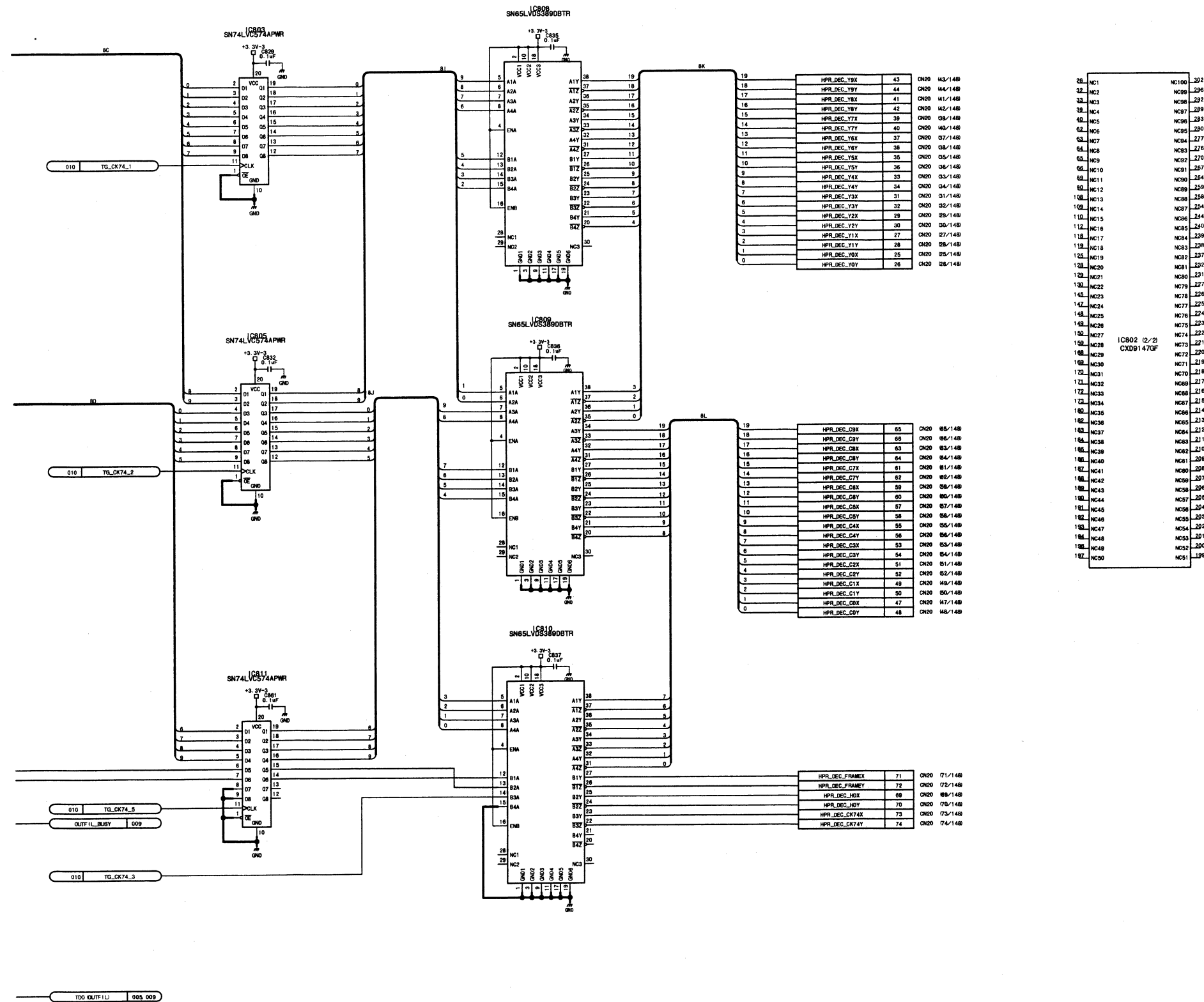
HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (7/10)
BOARD NO. 1-679-754-14
HPR-1: LOT NO. 261-3B4 For HDW-2000, M2000/P
HPR-1A: LOT NO. 261-3B4 For HDW-M2100/P, A2100
HDW-A2100_HPR-1_999_7



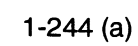
1-242 (a)

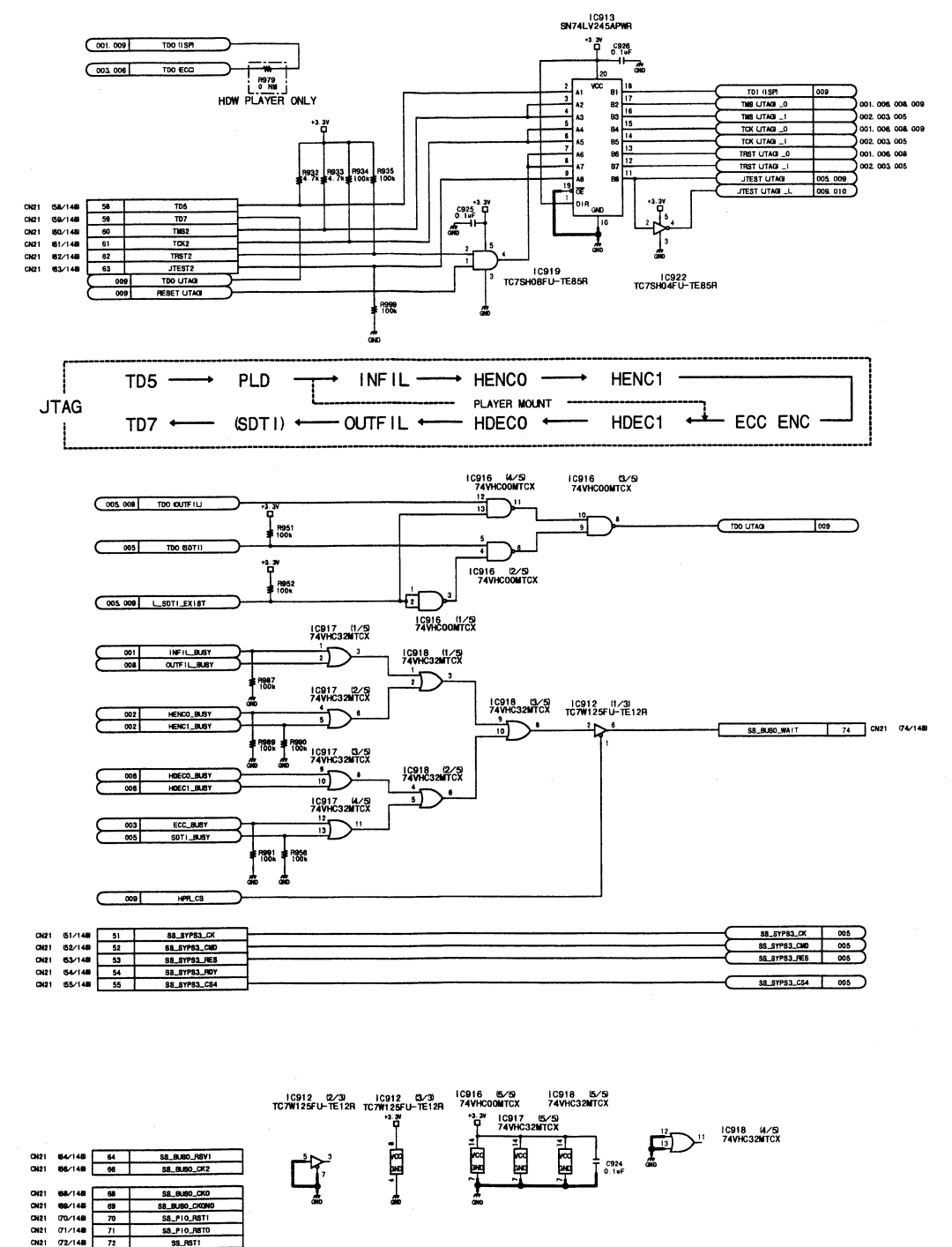
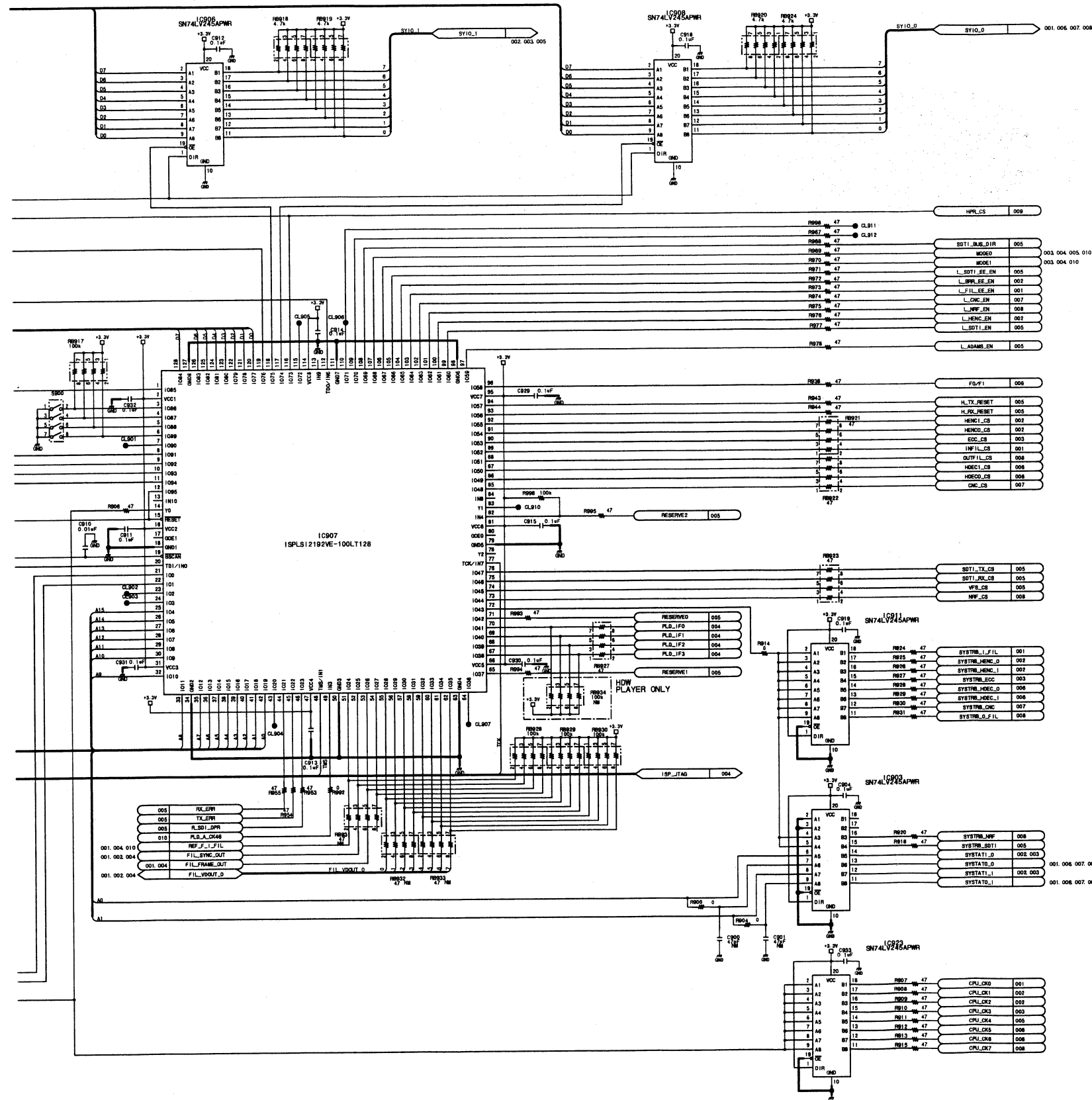
1-242 (a)

HDW series, DVW series, MSW series

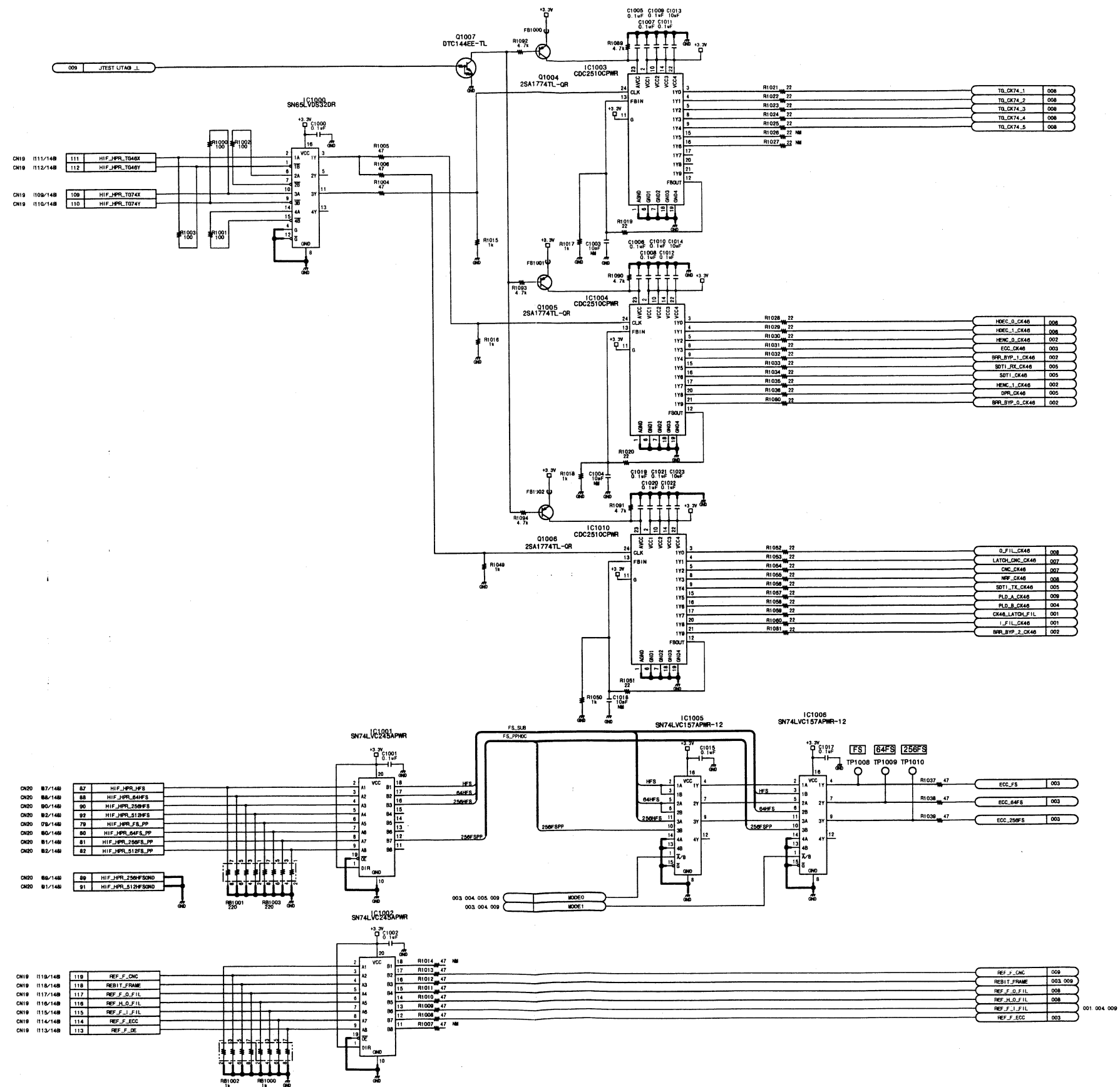


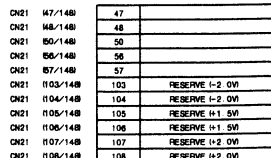
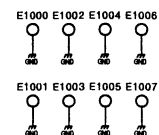
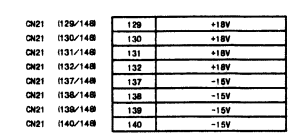
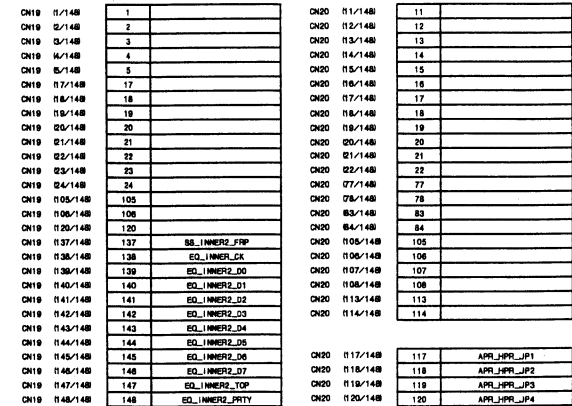
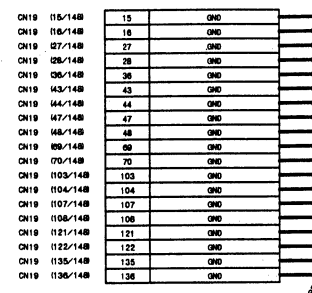
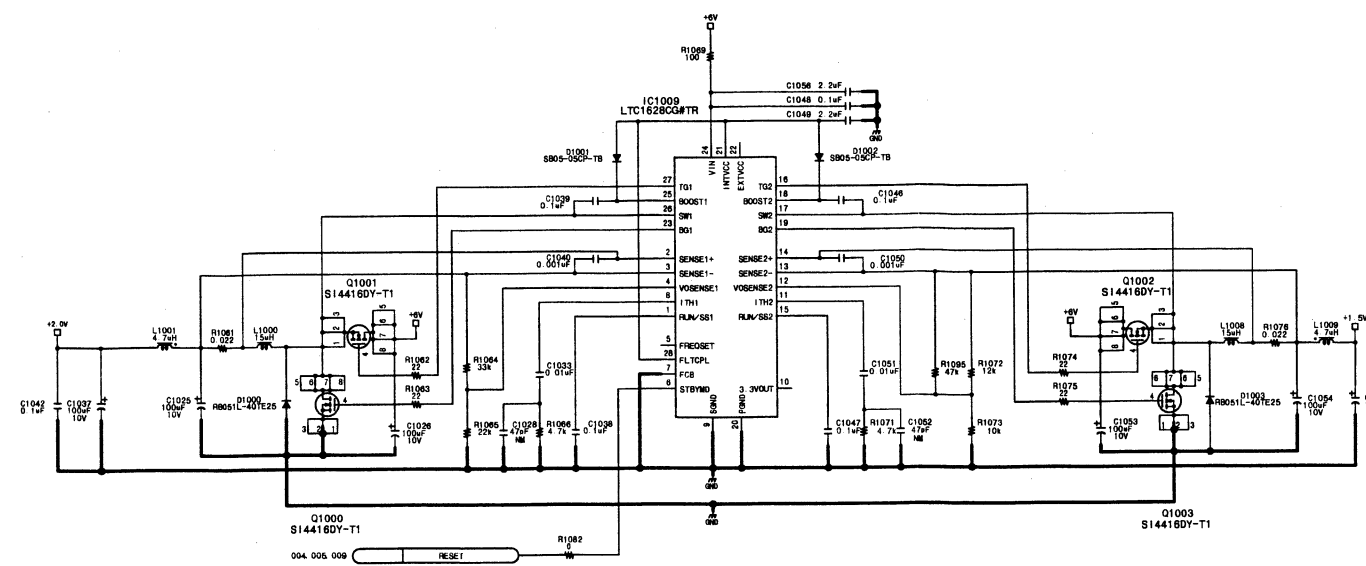
HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (8/10)
BOARD NO. 1-679-754-14
HPR-1: LOT NO. 261-3B4 For HDW-2000, M2000/P
HPR-1A: LOT NO. 261-3B4 For HDW-M2100/P, A2100
HDW-A2100_HPR-1_999_8





HD video signal processor
(Input filter, Bit rate reduction encoder, ECC encoder,
Bit rate reduction decoder, Concealment, Output filter)
HPR-1 (9/10)
BOARD NO. 1-679-754-14
HPR-1: LOT NO. 261-3B4 For HDW-2000, M2000/P
HPR-1A: LOT NO. 261-3B4 For HDW-M2100/P, A2100
HDW-A2100-HPR-1_999_9





HDW series, DVW series, MSW series

1-247 (a)

I	J	K	L	M	N	O	P
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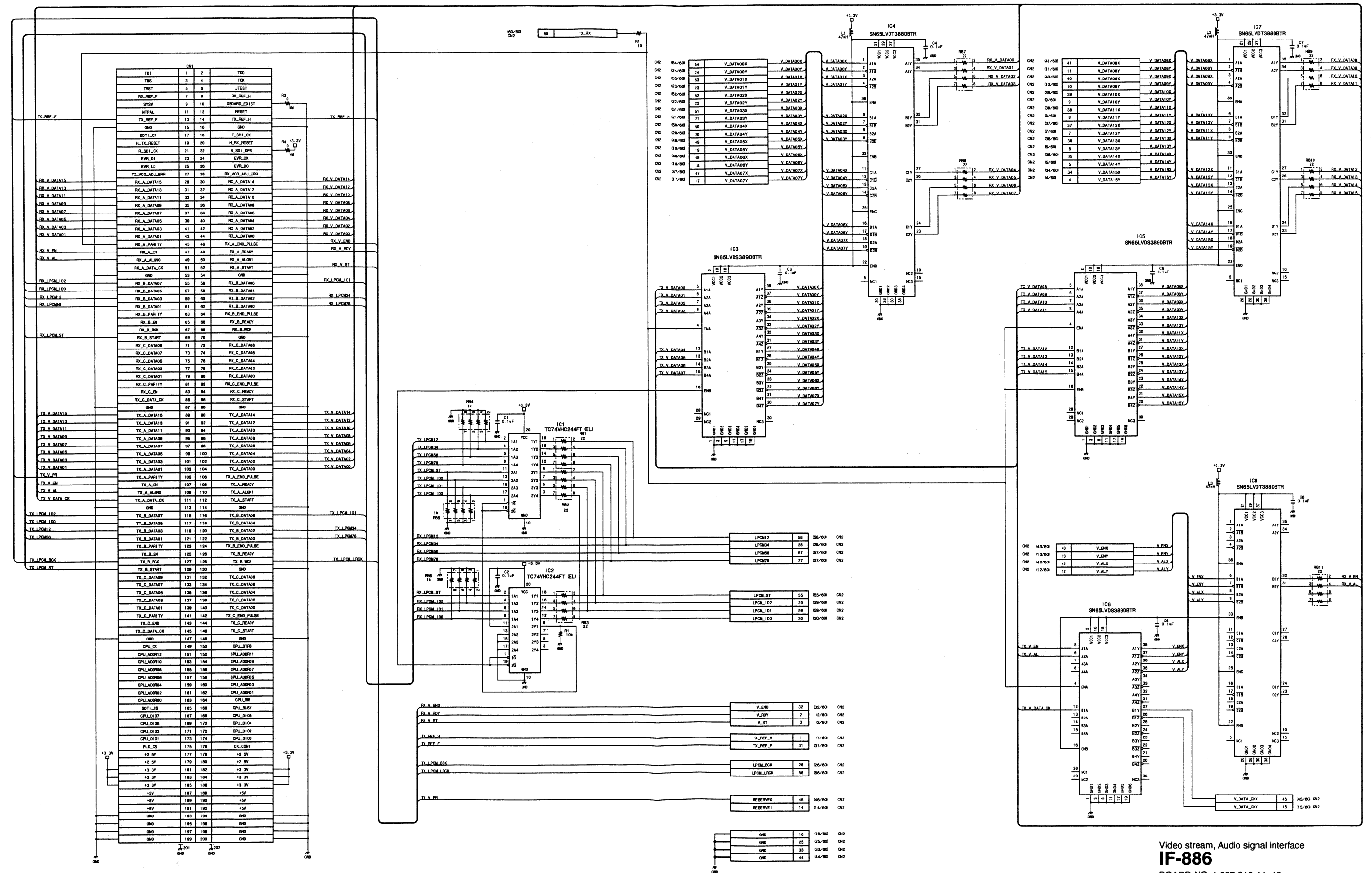
1

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5



Video stream, Audio signal interface

IF-886

BOARD NO. 1-687-219-11, 12

LOT NO. 314-484 For BKMW-E2000 (Option for MSW)

LOT NO. 491- For MSW-M2000E/P, M2100E/P

For BKMW-E3000 (Option for MSW)

BCX-256_IF-886_102_1

HDW series, DVW series, MSW series

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
	CN9		(CN9)
(4/11)	CN10	DM-123	(CN10)
(5/11)	CN13	DPR-155/OPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN81	DR-414/DR-508	(CN81)
	CN82		(CN82)
	CN83		(CN83)
	CN84	FACTORY USE	
	CN85		
	CN86		
	CN87	AE-31	(CN800)
	CN88		
	CN89		(CN89)
	CN71	FAN1 FAN2 FAN3 FAN4	
	CN72		
	CN73		
	CN74		
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	

APR-52

APR BOARD		CN6		APR BOARD	
SHEET NO.		SIGNAL NAME		SIGNAL NAME	SHEET NO.
(12/12)	GND	1	2	GND	(12/12)
18-41	⑨/12	EPR_SDT1_RX_D12	3	EPR_SDT1_RX_D34	⑨/12
18-43	⑨/12	EPR_SDT1_RX_D56	5	EPR_SDT1_RX_D78	⑨/12
20-131	⑨/12	APR_AUD_REC_D12	7	APR_AUD_REC_D34	⑨/12
18-47	⑨/12	APR_AUD_REC_D56	9	APR_AUD_REC_D78	⑨/12
18-49	⑨/12	APR_SDT1_TX_D12	11	APR_SDT1_TX_D34	⑨/12
18-51	⑨/12	APR_SDT1_TX_D56	13	APR_SDT1_TX_D78	⑨/12
15-41	⑨/12	DPR_ADV_D12	15	DPR_ADV_D34	⑨/12
15-43	⑨/12	DPR_ADV_D56	17	DPR_ADV_D78	⑨/12
15-45	⑨/12	DPR_CNF_D12	19	DPR_CNF_D34	⑨/12
15-47	⑨/12	DPR_CNF_D56	21	DPR_CNF_D78	⑨/12
23-100	(11/12)	HIF_APR_HFS	23	HIF_APR_64HFS	(11/12)
23-119	(11/12)	GND HIF_APR_256HFSGND	25	HIF_APR_256HFS	(11/12)
23-121	(11/12)	GND HIF_APR_512HFSGND	27	HIF_APR_512HFS	(11/12)
23-101	(11/12)	HIF_APR_DEC_AUD_VD	29	HIF_APR_PLL_LOCK	(11/12)
27-17	(11/12)	VPR_APR_FS	31	VPR_APR_64FS	(11/12)
27-21	(11/12)	GND VPR_APR_256FSGND	33	VPR_APR_256FS	(11/12)
27-23	(11/12)	GND VPR_APR_512FSGND	35	VPR_APR_512FS	(11/12)
26-81	(11/12)	VPR_APR_AES_FRAME	37	NC	(12/12)
27-19	(11/12)	GND VPR_APR_128FSGND	39	VPR_APR_128FS	(11/12)
26-112	(11/12)	VPR_APR_DEC_AUD_VD	41	VPR_APR_PLL_LOCK	(11/12)
26-113	(11/12)	VPR_APR_FSP	43	VPR_APR_64FSP	(11/12)
26-115	(11/12)	GND VPR_APR_256FSPGND	45	VPR_APR_256FSP	(11/12)
26-117	(11/12)	GND VPR_APR_512FSPGND	47	VPR_APR_512FSP	(11/12)
27-27	(11/12)	VPR_APR_DEC_AUD_VD PPR	49	VPR_APR_PLL_LOCK PPR	(11/12)
8-43	(12/12)	APR_SS_JP1	51	SS_SYPS2_CK	(12/12)
9-30	(12/12)	SS_SYPS2_CMD	53	SS_SYPS2_RES	(12/12)
9-32	(12/12)	SS_SYPS2_RDY	55	SS_SYPS2_APR_CS	(12/12)
8-44	(12/12)	APR_SS_JP2	57	TD1	⑨/12
9-58	⑨/12	TD2	59	TMS1	⑨/12
67-7	⑨/12	TCK1	61	TRST1	⑨/12
67-12	⑨/12	JTEST1	63	SS_BUS0_RSV1	(12/12)
9-65	(10/12)	SS_BUS0_CS	65	SS_BUS0_CK2	(10/12)
9-69	(12/12)	NC	67	NC	(12/12)
	(10/12)	GND SS_BUS0_CK2GND	69	SS_P10_RST1	(10/12)
	(12/12)	NC	71	SS_RST1	(10/12)
9-75	(12/12)	NC	73	SS_BUS0_WAIT	(10/12)
	(10/12)	SS_BUS0_DR	75	SS_BUS0_RD	(10/12)
	(10/12)	SS_BUS0_WR	77	SS_BUS0_STRB	(10/12)
9-79	(10/12)	SS_BUS0_A0	79	SS_BUS0_A1	(10/12)
9-81	(10/12)	SS_BUS0_A2	81	SS_BUS0_A3	(10/12)
9-83	(10/12)	SS_BUS0_A4	83	SS_BUS0_A5	(10/12)
9-85	(10/12)	SS_BUS0_A6	85	SS_BUS0_A7	(10/12)
9-87	(10/12)	SS_BUS0_A8	87	SS_BUS0_A9	(10/12)
9-89	(10/12)	SS_BUS0_A10	89	SS_BUS0_A11	(10/12)
9-91	(10/12)	SS_BUS0_A12	91	SS_BUS0_A13	(10/12)
9-93	(10/12)	SS_BUS0_A14	93	SS_BUS0_A15	(10/12)
9-95	(10/12)	SS_BUS0_D0	95	SS_BUS0_D1	(10/12)
9-97	(10/12)	SS_BUS0_D2	97	SS_BUS0_D3	(10/12)
9-99	(10/12)	SS_BUS0_D4	99	SS_BUS0_D5	(10/12)
9-101	(10/12)	SS_BUS0_D6	101	SS_BUS0_D7	(10/12)
(12/12)	-2.0V	103	104	-2.0V	(12/12)
	(12/12)	+1.5V	105	+1.5V	(12/12)
	(12/12)	+2.0V	107	+2.0V	(12/12)
(12/12)	+2.5V	109	110	+2.5V	(12/12)
	(12/12)	+2.5V	111	+2.5V	(12/12)
	(12/12)	+2.5V	113	+2.5V	(12/12)
(12/12)	+3.4V	115	116	+3.4V	(12/12)
	(12/12)	+3.4V	117	+3.4V	(12/12)
	(12/12)	+3.4V	119	+3.4V	(12/12)
(12/12)	+3.4V	121	122	+3.4V	(12/12)
	(12/12)	+6.2V	123	+6.2V	(12/12)
	(12/12)	+6.2V	125	+6.2V	(12/12)
(12/12)	+6.2V	127	128	+6.2V	(12/12)
	(12/12)	+15V	129	+15V	(12/12)
	(12/12)	+15V	131	+15V	(12/12)
(12/12)	-6.2V	133	134	-6.2V	(12/12)
	(12/12)	-6.2V	135	-6.2V	(12/12)
	(12/12)	-15V	137	-15V	(12/12)
(12/12)	-15V	139	140	-15V	(12/12)
	(12/12)	GND	141	GND	(12/12)
	(12/12)	GND	143	GND	(12/12)
(12/12)	GND	145	146	GND	(12/12)
	(12/12)	GND	147	GND	(12/12)
	(12/12)	GND	148	GND	(12/12)



MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
	CN9		(CN9)
(4/11)	CN10	DM-123	(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65	FACTORY USE	
	CN67		
	CN68	AE-31	(CN600)
	CN69	CUE-13	(CN69)
	CN71	FAN1	
	CN72	FAN2	
	CN73	FAN3	
	CN74	FAN4	
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	

DM-123		HDW-M/S/A, DVW-M, MSW-A/M	
DM BOARD SHEET NO.	SIGNAL NAME	CN10	DM BOARD SHEET NO.
1-114	GND	1 2	GND
1-114	GND	3 4	GND
1-114	GND	5 6	GND
1-114	GND	7 8	GND
1-114	GND	9 10	GND
1-114	GND	11 12	GND
1-114	GND	13 14	GND
1-114	GND	15 16	GND
1-114	EQ_DM_PB_C IG	17 18	EQ_DM_PB_C 00
1-114	GND	19 20	GND
1-113	EQ_DM_PB_Y IG	21 22	EQ_DM_PB_Y 00
1-113	GND	23 24	GND
1-113	GND	25 26	GND
1-113	DM_Y_RF_ENV IG	27 28	DM_Y_RF_ENV 00
1-113	GND	29 30	GND
1-113	GND	31 32	DM_Y_DO_PLS
1-113	DM_C_GUARD_BAND	33 34	DM_C_SH
1-113	DM_Y_PB_SYNC	35 36	DM_C_DO_PLS
1-113	GND	37 38	GND
1-113	SS_Y_PCM_MUTE	39 40	SS_C_PCM_MUTE
1-113	GND	41 42	SS_XSLOW_B10
1-113	SS_Y_SW_PLS	43 44	SS_C_SW_PLS
1-113	GND	45 46	GND
1-113	GND	47 48	DM_INT_Y_GH
1-113	SS_RST1	49 50	GND
1-113	SS_SYPS2_CMD	51 52	SS_SYPS2_OK
1-113	SS_SYPS2_DM_CS	53 54	SS_SYPS2_RES
1-113	SS_TAPE_SPEED	55 56	SS_SYPS2_RDY
1-113	NC	57 58	NC
1-113	SS_DM_POWER_DOWN	59 60	NC
1-113	SS_DT_V	61 62	SS_SERVO_V
1-113	DM_PB_V	63 64	SS_XDT_MODE
1-113	DM_Y_WZ	65 66	DM_C_WZ
1-113	DM_PB_FP1	67 68	DM_PB_FP2
1-113	SS_PB_FLD_OE	69 70	SS_XNO1SELESS_PB
1-113	DM_XBOARD_EX1ST	71 72	SS_DM_GAUSS_CONT1
1-113	SS_DM_GAUSS_CONT2	73 74	SS_DM_GAUSS_CONT3
1-113	SS_DM_GAUSS_CONT4	75 76	NC
1-113	GND	77 78	GND
1-113	VPR_DM_CK27GND	79 80	VPR_DM_CK27
1-113	GND	81 82	GND
1-113	VPR_VISC IG	83 84	VPR_VISC 00
1-113	GND	85 86	GND
1-113	VPR_DM_4FSCGND	87 88	VPR_DM_4FSC
1-113	VPR_V_SHIFT	89 90	VPR_H_SHIFT
1-113	DM_DR_GAUSS	91 92	VPR_DM_CF
1-113	VPR_DM_VD	93 94	VPR_DM_HD
1-113	DM_BCAM_PRTY	95 96	DM_BCAM_CF1
1-113	DM_BCAM_VD	97 98	DM_BCAM_HD
1-113	GND	99 100	DM_BCAM_V0
1-113	DM_BCAM_V1	101 102	DM_BCAM_V2
1-113	DM_BCAM_V3	103 104	DM_BCAM_V4
1-113	DM_BCAM_V5	105 106	DM_BCAM_V6
1-113	DM_BCAM_V7	107 108	DM_BCAM_V8
1-113	DM_BCAM_V9	109 110	DM_BCAM_GND
1-113	DM_VPR_LP1	111 112	DM_VPR_LP2
1-113	GND	113 114	GND
1-113	GND	115 116	GND
1-113	GND	117 118	GND
1-113	+12V	119 120	+12V
1-113	+12V	121 122	+12V
1-113	+2.5V-2	123 124	+2.5V-2
1-113	+2.5V-2	125 126	+2.5V-2
1-113	+3.4V-2	127 128	+3.4V-2
1-113	+3.4V-2	129 130	+3.4V-2
1-113	+3.4V-2	131 132	+3.4V-2
1-113	+6.2V-2	133 134	+6.2V-2
1-113	+6.2V-2	135 136	+6.2V-2
1-113	+6.2V-2	137 138	+6.2V-2
1-113	-6.2V	139 140	-6.2V
1-113	-6.2V	141 142	-6.2V
1-113	GND	143 144	GND
1-113	GND	145 146	GND
1-113	GND	147 148	GND

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
(4/11)	CN9		(CN9)
	CN10		(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42		(CN42)
	CN51		(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65	FACTORY USE	
	CN67		
	CN68	AE-31	(CN800)
	CN69		(CN809)
	CN71	FAN1	
	CN72		
	CN73		
	CN74	FAN3	
	CN75		
	CN76		
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	

DPR-155
HDW-2000/W/A MSW
DPR-229
HDW DVW MSW-A/M

DPR-155		DPR-229		CN15		DPR-155		DPR-229	
DPR BOARD	SHEET NO.	DPR BOARD	SHEET NO.	SIGNAL NAME		DPR BOARD	SHEET NO.	DPR BOARD	SHEET NO.
26-142	26-142	26-142	26-142	VPR_DEC_FRAME	1	2	VPR_MSX_FRAME	26-141	26-141
26-121	26-121	26-121	26-121	VPR_AUD_ID0	3	4	VPR_AUD_ID1	26-120	26-120
26-122	26-122	26-122	26-122	VPR_AUD_ID2	5	6	VPR_SX_AUD_VO	26-94	26-94
26-111	26-111	26-111	26-111	VPR_DPR_DEC_AUD_VO	7	8	VPR_ADV_VO	26-143	26-143
26-93	26-93	26-93	26-93	VPR_VAR_FRAME	9	10	VPR_VAR_AUD_VO	26-95	26-95
26-96	26-96	26-96	26-96	VPR_VAR_AUD_ID0	11	12	VPR_VAR_AUD_ID1	26-98	26-98
26-97	26-97	26-97	26-97	VPR_VAR_AUD_ID2	13	14	NC		
26-99	26-99	26-99	26-99	GND VPR_PP_CK27GND	15	16	VPR_PP_CK27	26-104	26-104
26-133	26-133	26-133	26-133	GND	17	18	GND		
26-135	26-135	26-135	26-135	VPR_DPR_FS	19	20	VPR_DPR_64FS	26-134	26-134
26-137	26-137	26-137	26-137	GND VPR_DPR_256FSQND	21	22	VPR_DPR_256FS	26-136	26-136
26-105	26-105	26-105	26-105	GND VPR_DPR_512FSQND	23	24	VPR_DPR_512FS	26-138	26-138
26-107	26-107	26-107	26-107	VPR_DPR_FSP	25	26	VPR_DPR_64FSP	26-106	26-106
26-109	26-109	26-109	26-109	GND VPR_DPR_256FSPQND	27	28	VPR_DPR_256FSP	26-108	26-108
23-111	23-111	23-111	23-111	GND VPR_DPR_512FSPQND	29	30	VPR_DPR_512FSP	26-110	26-110
23-113	23-113	23-113	23-113	GND HIF_DPR_HFS	31	32	HIF_DPR_64HFS	23-112	23-112
23-115	23-115	23-115	23-115	GND HIF_DPR_256HFSQND	33	34	HIF_DPR_256HFS	23-114	23-114
5-43	5-43	5-43	5-43	GND HIF_DPR_512HFSQND	35	36	HIF_DPR_512HFS	23-116	23-116
5-45	5-45	5-45	5-45	APR_DPR_IP1	37	38	APR_DPR_IP2	5-44	5-44
6-15	6-15	6-15	6-15	APR_DPR_IP3	39	40	APR_DPR_IP4	5-46	5-46
6-17	6-17	6-17	6-17	DPR_ADV_D12	41	42	DPR_ADV_D34	6-16	6-16
6-19	6-19	6-19	6-19	DPR_ADV_D56	43	44	DPR_ADV_D78	6-18	6-18
6-21	6-21	6-21	6-21	DPR_CNF_D12	45	46	DPR_CNF_D34	6-20	6-20
9-3	9-3	9-3	9-3	DPR_CNF_D56	47	48	DPR_CNF_D78	6-22	6-22
9-37	9-37	9-37	9-37	GND	49	50	GND		
9-39	9-39	9-39	9-39	DPR_INDEX_RDY	51	52	DPR_HLDEC_RED	9-4	9-4
27-58	27-58	27-58	27-58	SS_DSP_CS	53	54	SS_DSP_HX	9-38	9-38
67-7	67-7	67-7	67-7	SS_DSP_HR	55	56	SS_DSP_HBCK	9-40	9-40
67-12	67-12	67-12	67-12	NC	57	58	TD3	9-50	9-50
9-65	9-65	9-65	9-65	TD4	59	60	TMS1	67-5	67-5
9-69	9-69	9-69	9-69	TCK1	61	62	TRST1	67-9	67-9
9-75	9-75	9-75	9-75	JTEST1	63	64	SS_BUS0_RS1	9-64	9-64
9-77	9-77	9-77	9-77	SS_BUS0_CS	65	66	SS_BUS0_CK2	9-66	9-66
9-81	9-81	9-81	9-81	NC	67	68	NC		
9-83	9-83	9-83	9-83	GND SS_BUS0_CK2GND	69	70	SS_PIO_RST1	9-70	9-70
9-85	9-85	9-85	9-85	NC	71	72	SS_RST1	9-72	9-72
9-87	9-87	9-87	9-87	NC	73	74	SS_BUS0_WAIT	9-74	9-74
9-89	9-89	9-89	9-89	SS_BUS0_DR	75	76	SS_BUS0_RD	9-76	9-76
9-91	9-91	9-91	9-91	SS_BUS0_WR	77	78	SS_BUS0_STRB	9-78	9-78
9-93	9-93	9-93	9-93	SS_BUS0_A0	79	80	SS_BUS0_A1	9-80	9-80
9-95	9-95	9-95	9-95	SS_BUS0_A2	81	82	SS_BUS0_A3	9-82	9-82
9-97	9-97	9-97	9-97	SS_BUS0_A4	83	84	SS_BUS0_A5	9-84	9-84
9-99	9-99	9-99	9-99	SS_BUS0_A6	85	86	SS_BUS0_A7	9-86	9-86
9-101	9-101	9-101	9-101	SS_BUS0_A8	87	88	SS_BUS0_A9	9-88	9-88
				SS_BUS0_A10	89	90	SS_BUS0_A11	9-90	9-90
				SS_BUS0_A12	91	92	SS_BUS0_A13	9-92	9-92
				SS_BUS0_A14	93	94	SS_BUS0_A15	9-94	9-94
				SS_BUS0_D0	95	96	SS_BUS0_D1	9-96	9-96
				SS_BUS0_D2	97	98	SS_BUS0_D3	9-98	9-98
				SS_BUS0_D4	99	100	SS_BUS0_D5	9-100	9-100
				SS_BUS0_D6	101	102	SS_BUS0_D7	9-102	9-102
				NC	103	104	NC		
				NC	105	106	NC		
				NC	107	108	NC		
				+2.5V	109	110	+2.5V		
				+2.5V	111	112	+2.5V		
				+2.5V	113	114	+2.5V		
				+3.4V	115	116	+3.4V		
				+3.4V	117	118	+3.4V		
				+3.4V	119	120	+3.4V		
				+3.4V	121	122	+3.4V		
				+6.2V	123	124	+6.2V		
				+6.2V	125	126	+6.2V		
				+6.2V	127	128	+6.2V		
				+15V	129	130	+15V		
				+15V	131	132	+15V		
				-6.2V	133	134	-6.2V		
				-6.2V	135	136	-6.2V		
				-15V	137	138	-15V		
				-15V	139	140	-15V		
				GND	141	142	GND		
				GND	143	144	GND		
				GND	145	146	GND		
				GND	147	148	GND		

MB-884 BOARD		CONNECTION		
SHEET No.	REF No.			
(1/11)	CN1	EQ-84	(CN1)	
	CN3	AU-272	(CN3)	
(2/11)	CN4	APR-52	(CN5)	
	CN5		(CN6)	
	CN6		(CN7)	
(3/11)	CN7	SS-89	(CN7)	
	CN8		(CN8)	
	CN9		(CN9)	
(4/11)	CN10	DM-123	(CN10)	
(5/11)	CN13	DPR-155/DPR-229	(CN13)	
	CN14		(CN14)	
	CN15		(CN15)	
(6/11)	CN16	EPR-1	(CN16)	
	CN17		(CN17)	
	CN18		(CN18)	
(7/11)	CN19	HPR-1	(CN19)	
	CN20		(CN20)	
	CN21		(CN21)	
(8/11)	CN22	HIF-1/VN-13	(CN22)	
	CN23		(CN23)	
	CN24		(CN24)	
(9/11)	CN25	VPR-64/VPR-91	(CN25)	
	CN26		(CN27)	
	CN27		(CN28)	
(10/11)	CN41	CP-350	(CN41)	
	CN42	CP-371	(CN42)	
	CN51	FP-133	(CN51)	
(11/11)	CN61	DR-414/DR-508	(CN61)	
	CN62		(CN62)	
	CN65	FACTORY USE		
	CN67			
	CN68	AE-31	(CN800)	
	CN69	CUE-13	(CN69)	
	CN71	FAN1		
	CN72	FAN2		
	CN73	FAN3		
	CN74	FAN4		
	CN81	FACTORY USE		
	CN82			
CN83				
CN84				
CN85				
CN86				
CN87				
CN100	SWITCHING REGULATOR			

EPR-1		DVM MSW		EPR BOARD	
SHEET NO.		SIGNAL NAME		SHEET NO.	
27-28	m	NC	1 2 NC	27-29	m
		NC	3 4 NC		
		NC	5 6 NC		
		NC	7 8 NC		
		NC	9 10 NC		
		NC	11 12 NC		
		NC	13 14 NC		
		NC	15 16 VPR_EPR_CK54X		
		7/11	GND VPR_EPR_CK54GND		
		17 18 VPR_EPR_CK54Y	7/11		
		19 20 VPR_EPR_SDT1_TX_H	6/11		
26-126	m	6/11	VPR_EPR_CK27	26-131	m
26-125	m	6/11	GND VPR_EPR_CK27GND	26-124	m
26-121	m	6/11	VPR_AUD_ID0	26-120	m
26-123	m	6/11	VPR_EPR_ENC_AUD_VD	26-122	m
26-128	m	6/11	VPR_EPR_64FS	26-127	m
26-129	m	6/11	GND VPR_EPR_256FSGND	26-130	m
27-32	m	7/11	EPR_SDT1_RX_H		
27-33	m	7/11	GND EPR_SDT1_RX_CK	27-31	m
27-34	m	7/11	EPR_SDT1_RX_V	27-35	m
5-39	m	6/11	APR_EPR_JP1	5-40	m
5-41	m	6/11	APR_EPR_JP3	5-42	m
6-3	m	6/11	EPR_SDT1_RX_D12	6-4	m
6-5	m	6/11	EPR_SDT1_RX_D56	6-6	m
6-7	m	6/11	APR_AUD_REC_D12	6-8	m
6-9	m	6/11	APR_AUD_REC_D56	6-10	m
6-11	m	6/11	APR_SDT1_TX_D12	6-12	m
6-13	m	6/11	APR_SDT1_TX_D56	6-14	m
9-43	m	7/11	SS_SYSP3_CK	9-44	m
9-45	m	7/11	SS_SYSP3_RES	9-46	m
9-52	m	7/11	SS_SYSP3_CS5	27-59	m
67-3	m	6/11	T06	67-6	m
67-8	m	6/11	TCK2	67-10	m
67-13	m	6/11	JTEST2	9-64	m
9-65	m	6/11	SS_BUS0_CS		
9-67	m	6/11	SS_BUS0_CK1		
9-69	m	6/11	GND SS_BUS0_CK2GND	9-70	m
		NC	71 72 SS_RST1	9-72	m
		NC	73 74 SS_BUS0_WAIT	9-74	m
9-75	m	6/11	SS_BUS0_DR	9-76	m
9-77	m	6/11	SS_BUS0_WR	9-78	m
9-79	m	6/11	SS_BUS0_A0	9-80	m
9-81	m	6/11	SS_BUS0_A2	9-82	m
9-83	m	6/11	SS_BUS0_A4	9-84	m
9-85	m	6/11	SS_BUS0_A6	9-86	m
9-87	m	6/11	SS_BUS0_A8	9-88	m
9-89	m	6/11	SS_BUS0_A10	9-90	m
9-91	m	6/11	SS_BUS0_A12	9-92	m
9-93	m	6/11	SS_BUS0_A14	9-94	m
9-95	m	6/11	SS_BUS0_D0	9-96	m
9-97	m	6/11	SS_BUS0_D2	9-98	m
9-99	m	6/11	SS_BUS0_D4	9-100	m
9-101	m	6/11	SS_BUS0_D6	9-102	m
		NC	103 104 NC		
		NC	105 106 NC		
		NC	107 108 NC		
		6/11	+2.5V	109 110 +2.5V	6/11
		6/11	+2.5V	111 112 +2.5V	6/11
		6/11	+2.5V	113 114 +2.5V	6/11
		6/11	+3.4V	115 116 +3.4V	6/11
		6/11	+3.4V	117 118 +3.4V	6/11
		6/11	+3.4V	119 120 +3.4V	6/11
		6/11	+3.4V	121 122 +3.4V	6/11
		6/11	+6.2V	123 124 +6.2V	6/11
		6/11	+6.2V	125 126 +6.2V	6/11
		6/11	+6.2V	127 128 +6.2V	6/11
		+15V	129 130 +15V		
		+15V	131 132 +15V		
		6/11	-6.2V	133 134 -6.2V	6/11
		6/11	-6.2V	135 136 -6.2V	6/11
		-15V	137 138 -15V		
		-15V	139 140 -15V		
		6/11	GND	141 142 GND	6/11
		6/11	GND	143 144 GND	6/11
		6/11	GND	145 146 GND	6/11
		6/11	GND	147 148 GND	6/11

EPR-1

EPR BOARD SHEET NO.		CM16				EPR BOARD SHEET NO.	
SIGNAL NAME				SIGNAL NAME			
	NC	1	2	NC			
	NC	3	4	NC			
	NC	5	6	NC			
	NC	7	8	NC			
	NC	9	10	NC			
	NC	11	12	NC			
1-43	(1/11) EPR_REC_CKX	13	14	EPR_REC_CKY	(1/11)	1-44	
1-45	(1/11) GND EPR_REC_CKXGNDI	15	16	GND EPR_REC_ACGNDI	(1/11)	1-46	
1-47	(1/11) EPR_REC_ACX	17	18	EPR_REC_ACY	(1/11)	1-48	
1-49	(1/11) GND EPR_REC_BDGNDI	19	20	GND	(1/11)		
1-51	(1/11) EPR_REC_BDX	21	22	EPR_REC_BDY	(1/11)	1-52	
1-53	(1/11) EPR_XREC_AC_EN	23	24	EPR_XREC_BO_EN	(1/11)	1-54	
1-55	(1/11) EPR_EQ_JP1	25	26	EPR_EQ_JP2	(1/11)	1-56	
	NC	27	28	NC			
	NC	29	30	NC			
7-14	(1/11) SS_TRACK_START	31	32	SS_GOP_START	(1/11)	7-13	
7-15	(1/11) SS_SEG0	33	34	SS_SEG1	(1/11)	7-16	
7-17	(1/11) SS_SEG2	35	36	SS_REC_AC_SEL	(1/11)	7-18	
	NC	37	38	NC			
7-19	(1/11) EPR_SS_JP1	39	40	EPR_SS_JP2	(1/11)	7-20	
7-21	(1/11) EPR_SS_JP3	41	42	EPR_SS_JP4	(1/11)	7-22	
	NC	43	44	NC			
	NC	45	46	NC			
	NC	47	48	NC			
	NC	49	50	NC			
	NC	51	52	NC			
	NC	53	54	NC			
	NC	55	56	NC			
	NC	57	58	NC			
	NC	59	60	NC			
	NC	61	62	NC			
	NC	63	64	NC			
	NC	65	66	NC			
	NC	67	68	NC			
	NC	69	70	NC			
	NC	71	72	NC			
	NC	73	74	NC			
	NC	75	76	NC			
	NC	77	78	NC			
	NC	79	80	NC			
	NC	81	82	NC			
	NC	83	84	NC			
	NC	85	86	NC			
	NC	87	88	NC			
	NC	89	90	NC			
	NC	91	92	NC			
	NC	93	94	NC			
	NC	95	96	NC			
	NC	97	98	NC			
	NC	99	100	NC			
	NC	101	102	NC			
	NC	103	104	NC			
	NC	105	106	NC			
	NC	107	108	NC			
	NC	109	110	NC			
	NC	111	112	NC			
	NC	113	114	NC			
	NC	115	116	NC			
	NC	117	118	NC			
	NC	119	120	NC			
	NC	121	122	NC			
	NC	123	124	NC			
	NC	125	126	NC			
	NC	127	128	NC			
	NC	129	130	NC			
	NC	131	132	NC			
	NC	133	134	NC			
	NC	135	136	NC			
	NC	137	138	NC			
	NC	139	140	NC			
	NC	141	142	NC			
	NC	143	144	NC			
13-145	(1/11) DPR_EPR_JP1	145	146	DPR_EPR_JP2	(1/11)	13-146	
13-147	(1/11) DPR_EPR_JP3	147	148	DPR_EPR_JP4	(1/11)	13-148	

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
	CN9		(CN9)
(4/11)	CN10	DM-123	(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65		
	CN67	FACTORY USE	
	CN68	AE-31	(CN800)
	CN69	CUE-13	(CN69)
	CN71	FAN1	
	CN72	FAN2	
	CN73	FAN3	
	CN74	FAN4	
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	

HPR-1		HDW	
HPR BOARD SHEET NO.	SIGNAL NAME	1	2
(10/10)	GND	1	2
(1/10)	HIF_ENC_Y0X	3	4
(1/10)	HIF_ENC_Y0Y	5	6
(1/10)	HIF_ENC_Y1X	7	8
(1/10)	HIF_ENC_Y1Y	9	10
(1/10)	HIF_ENC_Y2X	11	12
(1/10)	HIF_ENC_Y2Y	13	14
(1/10)	HIF_ENC_Y3X	15	16
(1/10)	HIF_ENC_Y3Y	17	18
(1/10)	HIF_ENC_Y4X	19	20
(1/10)	HIF_ENC_Y4Y	21	22
(1/10)	HIF_ENC_Y5X	23	24
(1/10)	HIF_ENC_Y5Y	25	26
(1/10)	HIF_ENC_Y6X	27	28
(1/10)	HIF_ENC_Y6Y	29	30
(1/10)	HIF_ENC_Y7X	31	32
(1/10)	HIF_ENC_Y7Y	33	34
(1/10)	HIF_ENC_Y8X	35	36
(1/10)	HIF_ENC_Y8Y	37	38
(1/10)	HIF_ENC_Y9X	39	40
(1/10)	HIF_ENC_Y9Y	41	42
(10/10)	GND	43	44
(10/10)	GND	45	46
(10/10)	GND	47	48
(10/10)	GND	49	50
(10/10)	GND	51	52
(10/10)	GND	53	54
(10/10)	GND	55	56
(10/10)	GND	57	58
(10/10)	GND	59	60
(10/10)	GND	61	62
(10/10)	GND	63	64
(10/10)	GND	65	66
(10/10)	GND	67	68
(10/10)	GND	69	70
(10/10)	GND	71	72
(10/10)	GND	73	74
(10/10)	GND	75	76
(10/10)	GND	77	78
(10/10)	GND	79	80
(10/10)	GND	81	82
(10/10)	GND	83	84
(10/10)	GND	85	86
(10/10)	GND	87	88
(10/10)	GND	89	90
(10/10)	GND	91	92
(10/10)	GND	93	94
(10/10)	GND	95	96
(10/10)	GND	97	98
(10/10)	GND	99	100
(10/10)	GND	101	102
(10/10)	GND	103	104
(10/10)	GND	105	106
(10/10)	GND	107	108
(10/10)	GND	109	110
(10/10)	GND	111	112
(10/10)	GND	113	114
(10/10)	GND	115	116
(10/10)	GND	117	118
(10/10)	GND	119	120
(10/10)	GND	121	122
(10/10)	GND	123	124
(10/10)	GND	125	126
(10/10)	GND	127	128
(10/10)	GND	129	130
(10/10)	GND	131	132
(10/10)	GND	133	134
(10/10)	GND	135	136
(10/10)	GND	137	138
(10/10)	GND	139	140
(10/10)	GND	141	142
(10/10)	GND	143	144
(10/10)	GND	145	146
(10/10)	GND	147	148

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HPR BOARD SHEET NO.		CN20		HPR BOARD SHEET NO.	
SIGNAL NAME		SIGNAL NAME		SIGNAL NAME	
(10/10)	GND	1	2	GND	(10/10)
(10/10)	NC	3	4	NC	(10/10)
(10/10)	NC	5	6	NC	(10/10)
(10/10)	NC	7	8	NC	(10/10)
(10/10)	NC	9	10	NC	(10/10)
(10/10)	NC	11	12	NC	(10/10)
(10/10)	NC	13	14	NC	(10/10)
(10/10)	NC	15	16	NC	(10/10)
(10/10)	NC	17	18	NC	(10/10)
(10/10)	NC	19	20	NC	(10/10)
(10/10)	NC	21	22	NC	(10/10)
(10/10)	GND	23	24	GND	(10/10)
23-25	(10/10) HPR_DEC_Y0X	25	26	HPR_DEC_Y0Y	(10/10)
23-27	(10/10) HPR_DEC_Y1X	27	28	HPR_DEC_Y1Y	(10/10)
23-29	(10/10) HPR_DEC_Y2X	29	30	HPR_DEC_Y2Y	(10/10)
23-31	(10/10) HPR_DEC_Y3X	31	32	HPR_DEC_Y3Y	(10/10)
23-33	(10/10) HPR_DEC_Y4X	33	34	HPR_DEC_Y4Y	(10/10)
23-35	(10/10) HPR_DEC_Y5X	35	36	HPR_DEC_Y5Y	(10/10)
23-37	(10/10) HPR_DEC_Y6X	37	38	HPR_DEC_Y6Y	(10/10)
23-39	(10/10) HPR_DEC_Y7X	39	40	HPR_DEC_Y7Y	(10/10)
23-41	(10/10) HPR_DEC_Y8X	41	42	HPR_DEC_Y8Y	(10/10)
23-43	(10/10) HPR_DEC_Y9X	43	44	HPR_DEC_Y9Y	(10/10)
(10/10)	GND	45	46	GND	(10/10)
23-47	(10/10) HPR_DEC_C0X	47	48	HPR_DEC_C0Y	(10/10)
23-49	(10/10) HPR_DEC_C1X	49	50	HPR_DEC_C1Y	(10/10)
23-51	(10/10) HPR_DEC_C2X	51	52	HPR_DEC_C2Y	(10/10)
23-53	(10/10) HPR_DEC_C3X	53	54	HPR_DEC_C3Y	(10/10)
23-55	(10/10) HPR_DEC_C4X	55	56	HPR_DEC_C4Y	(10/10)
23-57	(10/10) HPR_DEC_C5X	57	58	HPR_DEC_C5Y	(10/10)
23-59	(10/10) HPR_DEC_C6X	59	60	HPR_DEC_C6Y	(10/10)
23-61	(10/10) HPR_DEC_C7X	61	62	HPR_DEC_C7Y	(10/10)
23-63	(10/10) HPR_DEC_C8X	63	64	HPR_DEC_C8Y	(10/10)
23-65	(10/10) HPR_DEC_C9X	65	66	HPR_DEC_C9Y	(10/10)
(10/10)	GND	67	68	GND	(10/10)
23-69	(10/10) HPR_DEC_H0X	69	70	HPR_DEC_H0Y	(10/10)
23-71	(10/10) HPR_DEC_FRAMEX	71	72	HPR_DEC_FRAMEY	(10/10)
23-73	(10/10) HPR_DEC_CK74X	73	74	HPR_DEC_CK74Y	(10/10)
(10/10)	GND	75	76	GND	(10/10)
(10/10)	NC	77	78	NC	(10/10)
22-39	(10/10) HIF_HPR_LFS_PP	79	80	HIF_HPR_LFS_PP	(10/10)
22-41	(10/10) HIF_HPR_256FS_PP	81	82	HIF_HPR_512FS_PP	(10/10)
(10/10)	NC	83	84	NC	(10/10)
(10/10)	GND	85	86	GND	(10/10)
23-117	(10/10) HIF_HPR_LFS	87	88	HIF_HPR_64FS	(10/10)
23-119	(10/10) GND HIF_HPR_256FS	89	90	HIF_HPR_256FS	(10/10)
23-121	(10/10) GND HIF_HPR_512FS	91	92	HIF_HPR_512FS	(10/10)
(10/10)	GND	93	94	GND	(10/10)
27-9	(10/10) VPR_HPR_LFS	95	96	VPR_HPR_64FS	(10/10)
27-11	(10/10) GND VPR_HPR_256FS	97	98	VPR_HPR_256FS	(10/10)
27-13	(10/10) GND VPR_HPR_512FS	99	100	VPR_HPR_512FS	(10/10)
27-15	(10/10) GND VPR_HPR_CK27	101	102	VPR_HPR_CK27	(10/10)
(10/10)	GND	103	104	GND	(10/10)
(10/10)	NC	105	106	NC	(10/10)
(10/10)	NC	107	108	NC	(10/10)
(10/10)	GND	109	110	GND	(10/10)
13-77	(10/10) DPR_AUD_PB_D12	111	112	DPR_AUD_PB_D34	(10/10)
(10/10)	NC	113	114	NC	(10/10)
(10/10)	GND	115	116	GND	(10/10)
5-35	(10/10) APR_HPR_LP1	117	118	APR_HPR_LP2	(10/10)
5-37	(10/10) APR_HPR_LP3	119	120	APR_HPR_LP4	(10/10)
5-139	(10/10) HPR_AUD_S0T1_R12	121	122	HPR_AUD_S0T1_R34	(10/10)
5-141	(10/10) HPR_AUD_S0T1_R56	123	124	HPR_AUD_S0T1_R78	(10/10)
5-143	(10/10) HPR_AUD_S0T1_T12	125	126	HPR_AUD_S0T1_T34	(10/10)
5-145	(10/10) HPR_AUD_S0T1_T56	127	128	HPR_AUD_S0T1_T78	(10/10)
(10/10)	GND	129	130	GND	(10/10)
6-7	(10/10) APR_AUD_REC_D12	131	132	APR_AUD_REC_D34	(10/10)
(10/10)	GND	133	134	GND	(10/10)
(10/10)	GND	135	136	GND	(10/10)
23-123	(10/10) HIF_ENC_H0X	137	138	HIF_ENC_H0Y	(10/10)
23-125	(10/10) HIF_ENC_V0X	139	140	HIF_ENC_V0Y	(10/10)
23-127	(10/10) HIF_ENC_FRAMEX	141	142	HIF_ENC_FRAMEY	(10/10)
23-129	(10/10) HIF_ENC_CRC0X	143	144	HIF_ENC_CRC0Y	(10/10)
23-131	(10/10) HIF_ENC_REC_CK74X	145	146	HIF_ENC_REC_CK74Y	(10/10)
23-133	(10/10) HIF_ENC_INPUT_CK74X	147	148	HIF_ENC_INPUT_CK74Y	(10/10)

HPR-1

HPR BOARD SHEET NO.		CN19		HPR BOARD SHEET NO.	
SIGNAL NAME		SIGNAL NAME		SIGNAL NAME	
(10/10)	NC	1	2	NC	(10/10)
(10/10)	NC	3	4	NC	(10/10)
(10/10)	NC	5	6	SS_XREC	(10/10)
7-5	(10/10) HPR_SS_JP1	7	8	HPR_SS_JP2	(10/10)
7-7	(10/10) HPR_SS_JP3	9	10	HPR_SS_JP4	(10/10)
7-9	(10/10) SS_HD_REC_AC_SEL	11	12	SS_HD_REC_BO_SEL	(10/10)
7-11	(10/10) SS_HD_FIELD_SEL	13	14	SS_HD_REC_BO_SEL	(10/10)
(10/10)	GND	15	16	GND	(10/10)
22-17	(10/10) NC	17	18	NC	(10/10)
22-19	(10/10) NC	19	20	NC	(10/10)
22-21	(10/10) NC	21	22	NC	(10/10)
22-23	(10/10) NC	23	24	NC	(10/10)
22-25	(10/10) HIF_HPR_LP1	25	26	HIF_HPR_LP2	(10/10)
(10/10)	GND	27	28	GND	(10/10)
1-29	(10/10) HPR_REC_C0X	29	30	HPR_REC_C0Y	(10/10)
1-31	(10/10) GND HPR_REC_C0GND	31	32	GND HPR_REC_A0GND	(10/10)
1-33	(10/10) HPR_REC_C0X	33	34	HPR_REC_C0Y	(10/10)
1-35	(10/10) GND HPR_REC_B0GND	35	36	GND	(10/10)
1-37	(10/10) HPR_REC_B0X	37	38	HPR_REC_B0Y	(10/10)
1-39	(10/10) HPR_REC_C0_EN	39	40	HPR_REC_B0_EN	(10/10)
1-41	(10/10) HPR_REC_JP1	41	42	HPR_REC_JP2	(10/10)
(10/10)	GND	43	44	GND	(10/10)
13-79	(10/10) HPR_VPR_LP1	45	46	HPR_VPR_LP2	(10/10)
(10/10)	GND	47	48	GND	(10/10)
13-83	(10/10) DPR_HPR_LP1	49	50	DPR_HPR_LP2	(10/10)
13-85	(10/10) DPR_HPR_LP3	51	52	DPR_HPR_LP4	(10/10)
13-87	(10/10) DPR_OUTER_C0X	53	54	DPR_OUTER_C0Y	(10/10)
13-89	(10/10) DPR_OUTER_JP1X	55	56	DPR_OUTER_JP1Y	(10/10)
13-91	(10/10) DPR_OUTER_JP2X	57	58	DPR_OUTER_JP2Y	(10/10)
13-93	(10/10) DPR_OUTER_PRTYX	59	60	DPR_OUTER_PRTYX	(10/10)
13-95	(10/10) DPR_OUTER_FRMX	61	62	DPR_OUTER_FRMX	(10/10)
13-97	(10/10) DPR_OUTER_SYNCX	63	64	DPR_OUTER_SYNCX	(10/10)
13-99	(10/10) DPR_OUTER_ERR1X	65	66	DPR_OUTER_ERR1Y	(10/10)
13-101	(10/10) DPR_OUTER_ERR2X	67	68	DPR_OUTER_ERR2Y	(10/10)
(10/10)	GND	69	70	GND	(10/10)
13-105	(10/10) DPR_OUTER_D10X	71	72	DPR_OUTER_D10Y	(10/10)
13-107	(10/10) DPR_OUTER_D11X	73	74	DPR_OUTER_D11Y	(10/10)
13-109	(10/10) DPR_OUTER_D12X	75	76	DPR_OUTER_D12Y	(10/10)
13-111	(10/10) DPR_OUTER_D13X	77	78	DPR_OUTER_D13Y	(10/10)
13-113	(10/10) DPR_OUTER_D14X	79	80	DPR_OUTER_D14Y	(10/10)
13-115	(10/10) DPR_OUTER_D15X	81	82	DPR_OUTER_D15Y	(10/10)
13-117	(10/10) DPR_OUTER_D16X	83	84	DPR_OUTER_D16Y	(10/10)
13-119	(10/10) DPR_OUTER_D17X	85	86	DPR_OUTER_D17Y	(10/10)
13-121	(10/10) DPR_OUTER_D20X	87	88	DPR_OUTER_D20Y	(10/10)
13-123	(10/10) DPR_OUTER_D21X	89	90	DPR_OUTER_D21Y	(10/10)
13-125	(10/10) DPR_OUTER_D22X	91	92	DPR_OUTER_D22Y	(10/10)
13-127	(10/10) DPR_OUTER_D23X	93	94	DPR_OUTER_D23Y	(10/10)
13-129	(10/10) DPR_OUTER_D24X	95	96	DPR_OUTER_D24Y	(10/10)
13-131	(10/10) DPR_OUTER_D25X	97	98	DPR_OUTER_D25Y	(10/10)
13-133	(10/10) DPR_OUTER_D26X	99	100	DPR_OUTER_D26Y	(10/10)
13-135	(10/10) DPR_OUTER_D27X	101	102	DPR_OUTER_D27Y	(10/10)
(10/10)	GND	103	104	GND	(10/10)
(10/10)	NC	105	106	NC	(10/10)
(10/10)	GND	107	108	GND	(10/10)
22-97	(10/10) HIF_HPR_T074X	109	110	HIF_HPR_T074Y	(10/10)
22-99	(10/10) HIF_HPR_T046X	111	112	HIF_HPR_T046Y	(10/10)
22-101	(10/10) HIF_REF_F_DE	113	114	HIF_REF_F_ECC	(10/10)
22-103	(10/10) HIF_REF_F_IL	115	116	HIF_REF_F_IL	(10/10)
22-105	(10/10) HIF_REF_F_OFIL	117	118	HIF_REF_F_FRAME	(10/10)
22-107	(10/10) HIF_REF_F_CNC	119	120	NC	(10/10)
(10/10)	GND	121	122	GND	(10/10)
22-111	(10/10) HPR_S0T1_RX_CK74X	123	124	HPR_S0T1_RX_CK74Y	(10/10)
22-113	(10/10) HPR_S0T1_RX_FRM74X	125	126	HPR_S0T1_RX_FRM74Y	(10/10)
22-115	(10/10) HPR_S0T1_RX_V74X	127	128	HPR_S0T1_RX_V74Y	(10/10)
22-117	(10/10) HPR_S0T1_RX_H74X	129	130	HPR_S0T1_RX_H74Y	(10/10)
22-119	(10/10) HIF_HPR_LP3	131	132	HIF_HPR_LP4	(10/10)
22-121	(10/10) HIF_HPR_S0T1_F	133	134	HIF_HPR_S0T1_H	(10/10)
(10/10)	GND	135	136	GND	(10/10)
(10/10)	SS_INNER2_FRP	137	138	EQ_INNER2_CK	(10/10)
1-99	(10/10) EQ_INNER2_D0	139	140	EQ_INNER2_D1	(10/10)
1-91	(10/10) EQ_INNER2_D2	141	142	EQ_INNER2_D3	(10/10)
1-93	(10/10) EQ_INNER2_D4	143	144	EQ_INNER2_D5	(10/10)
1-95	(10/10) EQ_INNER2_D6	145	146	EQ_INNER2_D7	(10/10)
1-97	(10/10) EQ_INNER2_TOP	147	148	EQ_INNER2_PRTY	(10/10)

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
(4/11)	CN9	DM-123	(CN9)
	CN10		(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65	FACTORY USE	
	CN67		
	CN68		
	CN69	AE-31	(CN800)
	CN71	FAN1 FAN2 FAN3 FAN4	
	CN72		
	CN73		
	CN74		
	CN81	FACTORY USE	
	CN82		
CN83			
CN84			
CN85			
CN86			
CN87			
CN100	SWITCHING REGULATOR		

HIF-1

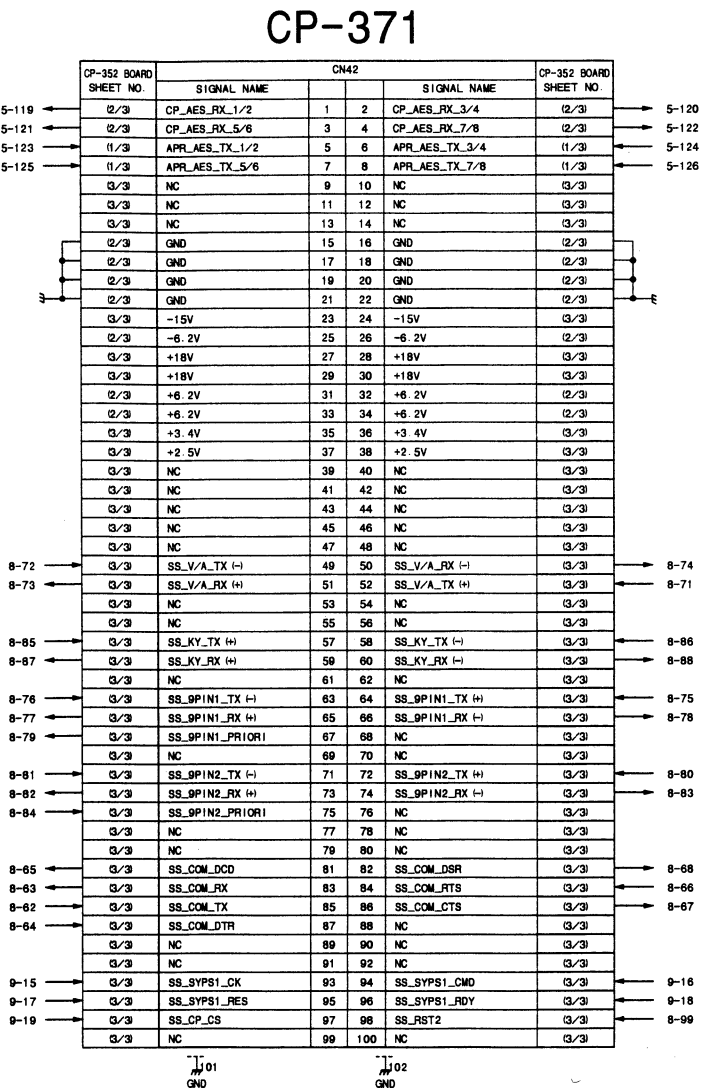
HOW BOM-104 FOR DVW MSW

VN-13

BOM-E2000, E3000 FOR MSW
MSW-M2000E/P, M2100E/P

VN BOARD SHEET NO.	HIF BOARD SHEET NO.	CN24				HIF BOARD SHEET NO.	VN BOARD SHEET NO.
		SIGNAL NAME			SIGNAL NAME		
3	3/7	GND	1	2	GND	3/7	3
21-3	3/7	HIF_ENC_Y0X	3	4	HIF_ENC_Y0Y	3/7	21-4
21-5	3/7	HIF_ENC_Y1X	5	6	HIF_ENC_Y1Y	3/7	21-6
21-7	3/7	HIF_ENC_Y2X	7	8	HIF_ENC_Y2Y	3/7	21-8
21-9	3/7	HIF_ENC_Y3X	9	10	HIF_ENC_Y3Y	3/7	21-10
21-11	3/7	HIF_ENC_Y4X	11	12	HIF_ENC_Y4Y	3/7	21-12
21-13	3/7	HIF_ENC_Y5X	13	14	HIF_ENC_Y5Y	3/7	21-14
21-15	3/7	HIF_ENC_Y6X	15	16	HIF_ENC_Y6Y	3/7	21-16
21-17	3/7	HIF_ENC_Y7X	17	18	HIF_ENC_Y7Y	3/7	21-18
21-19	3/7	HIF_ENC_Y8X	19	20	HIF_ENC_Y8Y	3/7	21-20
21-21	3/7	HIF_ENC_Y9X	21	22	HIF_ENC_Y9Y	3/7	21-22
3	3/7	GND	23	24	GND	3/7	3
21-25	3/7	HIF_ENC_C0X	25	26	HIF_ENC_C0Y	3/7	21-26
21-27	3/7	HIF_ENC_C1X	27	28	HIF_ENC_C1Y	3/7	21-28
21-29	3/7	HIF_ENC_C2X	29	30	HIF_ENC_C2Y	3/7	21-30
21-31	3/7	HIF_ENC_C3X	31	32	HIF_ENC_C3Y	3/7	21-32
21-33	3/7	HIF_ENC_C4X	33	34	HIF_ENC_C4Y	3/7	21-34
21-35	3/7	HIF_ENC_C5X	35	36	HIF_ENC_C5Y	3/7	21-36
21-37	3/7	HIF_ENC_C6X	37	38	HIF_ENC_C6Y	3/7	21-38
21-39	3/7	HIF_ENC_C7X	39	40	HIF_ENC_C7Y	3/7	21-40
21-41	3/7	HIF_ENC_C8X	41	42	HIF_ENC_C8Y	3/7	21-42
21-43	3/7	HIF_ENC_C9X	43	44	HIF_ENC_C9Y	3/7	21-44
3	3/7	GND	45	46	GND	3/7	3
3	3/7	GND	47	48	SS_OSD_CS1	3/7	9-10
9-8	3/7	SS_SYP50_CMD	49	50	SS_OSD_TRE1	3/7	9-12
9-7	3/7	SS_SYP50_CS	51	52	SS_SYP53_CS2	3/7	9-49
9-50	3/7	SS_SYP53_CS3	53	54	SS_SYP53_RES	3/7	9-45
9-44	3/7	SS_SYP53_CMD	55	56	SS_SYP53_RDY	3/7	9-46
9-43	3/7	SS_SYP53_CS4	57	58	T07	3/7	21-59
67-4	3/7	TD8	59	60	TMS2	3/7	67-6
67-8	3/7	TCK2	61	62	TRST2	3/7	67-10
67-13	3/7	JTEST2	63	64	SS_BUS0_RS1V1	3/7	9-64
9-65	3/7	SS_BUS0_CS	65	66	NC	3/7	
	3/7	NC	67	68	SS_BUS0_CK0	3/7	9-68
9-69	3/7	GND SS_BUS0_CK0GND	69	70	NC	3/7	
9-71	3/7	SS_P10_RST0	71	72	NC	3/7	
9-73	3/7	SS_RST0	73	74	SS_BUS0_WAIT	3/7	9-74
9-75	3/7	SS_BUS0_DR	75	76	SS_BUS0_RD	3/7	9-76
9-77	3/7	SS_BUS0_WR	77	78	SS_BUS0_STRB	3/7	9-78
9-79	3/7	SS_BUS0_A0	79	80	SS_BUS0_A1	3/7	9-80
9-81	3/7	SS_BUS0_A2	81	82	SS_BUS0_A3	3/7	9-82
9-83	3/7	SS_BUS0_A4	83	84	SS_BUS0_A5	3/7	9-84
9-85	3/7	SS_BUS0_A6	85	86	SS_BUS0_A7	3/7	9-86
9-87	3/7	SS_BUS0_A8	87	88	SS_BUS0_A9	3/7	9-88
9-89	3/7	SS_BUS0_A10	89	90	SS_BUS0_A11	3/7	9-90
9-91	3/7	SS_BUS0_A12	91	92	SS_BUS0_A13	3/7	9-92
9-93	3/7	SS_BUS0_A14	93	94	SS_BUS0_A15	3/7	9-94
9-95	3/7	SS_BUS0_D0	95	96	SS_BUS0_D1	3/7	9-96
9-97	3/7	SS_BUS0_D2	97	98	SS_BUS0_D3	3/7	9-98
9-99	3/7	SS_BUS0_D4	99	100	SS_BUS0_D5	3/7	9-100
9-101	3/7	SS_BUS0_D6	101	102	SS_BUS0_D7	3/7	9-102
	3/7	NC	103	104	NC	3/7	
	3/7	NC	105	106	NC	3/7	
	3/7	NC	107	108	NC	3/7	
	3/7	+2.5V	109	110	+2.5V	3/7	
	3/7	+2.5V	111	112	+2.5V	3/7	
	3/7	+2.5V	113	114	+2.5V	3/7	
	3/7	+3.4V	115	116	+3.4V	3/7	
	3/7	+3.4V	117	118	+3.4V	3/7	
	3/7	+3.4V	119	120	+3.4V	3/7	
	3/7	+3.4V	121	122	+3.4V	3/7	
	3/7	+6.2V	123	124	+6.2V	3/7	
	3/7	+6.2V	125	126	+6.2V	3/7	
	3/7	+6.2V	127	128	+6.2V	3/7	
	3/7	+15V	129	130	+15V	3/7	
	3/7	+15V	131	132	+15V	3/7	
	3/7	-6.2V	133	134	-6.2V	3/7	
	3/7	-6.2V	135	136	-6.2V	3/7	
	3/7	-15V	137	138	-15V	3/7	
	3/7	-15V	139	140	-15V	3/7	
	3/7	GND	141	142	GND	3/7	
	3/7	GND	143	144	GND	3/7	
	3/7	GND	145	146	GND	3/7	
	3/7	GND	147	148	GND	3/7	

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
	CN9		(CN9)
(4/11)	CN10	DM-123	(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65	FACTORY USE	
	CN67		
	CN68	AE-31	(CN800)
	CN69	CUE-13	(CN89)
	CN71	FAN1	
	CN72	FAN2	
	CN73	FAN3	
	CN74	FAN4	
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	



CP-350

CN41			
SIGNAL NAME		SIGNAL NAME	
GND	1	2	GND
GND	3	4	GND
GND	5	6	GND
GND	7	8	GND
GND	9	10	GND
GND	11	12	GND
GND	13	14	GND
GND	15	16	GND
-6.2V	17	18	-6.2V
+6.2V	19	20	+6.2V
GND	21	22	GND
GND	23	24	GND
GND	25	26	GND
REF INPUT 00	27	28	REF INPUT 01
GND	29	30	GND
R-Y_OUT 00	31	32	R-Y_OUT 01
B-Y_OUT 00	33	34	B-Y_OUT 01
Y_OUT 00	35	36	Y_OUT 01
GND	37	38	GND
VIDEO3_OUT 00	39	40	VIDEO3_OUT 01
VIDEO2_OUT 00	41	42	VIDEO2_OUT 01
VIDEO1_OUT 00	43	44	VIDEO1_OUT 01
GND	45	46	GND
R-Y_IN 00	47	48	R-Y_IN 01
B-Y_IN 00	49	50	B-Y_IN 01
Y_IN 00	51	52	Y_IN 01
GND	53	54	GND
VIDEO_IN 00	55	56	VIDEO_IN 01
GND	57	58	GND
GND	59	60	GND
SS_LTC_OUT 00	61	62	SS_LTC_OUT 01
SS_LTC_OUT 00	63	64	SS_LTC_OUT 01
CP_LTC_SOURCE 00	65	66	CP_LTC_SOURCE 01
CP_LTC_SOURCE 00	67	68	CP_LTC_SOURCE 01
CP_MIC_ON/OFF_CUE	69	70	GND
CP_MIC_ON/OFF_3	71	72	CP_MIC_ON/OFF_4
CP_MIC_ON/OFF_1	73	74	CP_MIC_ON/OFF_2
APR_MONI_L_OUT 00	75	76	APR_MONI_L_OUT 01
APR_MONI_L_OUT 00	77	78	APR_MONI_L_OUT 01
APR_MONI_R_OUT 00	79	80	APR_MONI_R_OUT 01
APR_MONI_R_OUT 00	81	82	APR_MONI_R_OUT 01
CUE_OUT 00	83	84	CUE_OUT 01
CUE_OUT 00	85	86	CUE_OUT 01
APR_CH4_OUT 00	87	88	APR_CH4_OUT 01
APR_CH4_OUT 00	89	90	APR_CH4_OUT 01
APR_CH3_OUT 00	91	92	APR_CH3_OUT 01
APR_CH3_OUT 00	93	94	APR_CH3_OUT 01
APR_CH2_OUT 00	95	96	APR_CH2_OUT 01
APR_CH2_OUT 00	97	98	APR_CH2_OUT 01
APR_CH1_OUT 00	99	100	APR_CH1_OUT 01
APR_CH1_OUT 00	101	102	APR_CH1_OUT 01
GND	103	104	GND
CUE_IN 00	105	106	CUE_IN 01
CUE_IN 00	107	108	CUE_IN 01
CP_CH4_LINE 00	109	110	CP_CH4_LINE 01
CP_CH4_LINE 00	111	112	CP_CH4_LINE 01
CP_CH3_LINE 00	113	114	CP_CH3_LINE 01
CP_CH3_LINE 00	115	116	CP_CH3_LINE 01
CP_CH2_LINE 00	117	118	CP_CH2_LINE 01
CP_CH2_LINE 00	119	120	CP_CH2_LINE 01
CP_CH1_LINE 00	121	122	CP_CH1_LINE 01
CP_CH1_LINE 00	123	124	CP_CH1_LINE 01

FP-133

CN51			
SIGNAL NAME		SIGNAL NAME	
APR_HP_R 00	1	2	APR_HP_R 00
APR_HP_R 00	3	4	APR_HP_R 00
HP_R_VAR 00	5	6	HP_R_VAR 00
HP_R_VAR 00	7	8	HP_R_VAR 00
APR_HP_L 00	9	10	APR_HP_L 00
APR_HP_L 00	11	12	APR_HP_L 00
HP_L_VAR 00	13	14	HP_L_VAR 00
HP_L_VAR 00	15	16	HP_L_VAR 00
APR_P_MUTE_HP/TC	17	18	GND
SS_KY_TX (H)	19	20	SS_KY_TX (H)
SS_KY_RX (H)	21	22	SS_KY_RX (H)
GND	23	24	SS_BUS1_CS0
SS_BUS1_CS1	25	26	SS_BUS1_CS2
SS_EXT_INT	27	28	SS_BUS1_CK0
GND SS_BUS1_CK0GND	29	30	SS_PIO_RST2
SS_RST2	31	32	SS_BUS1_WAIT
SS_BUS1_DR	33	34	SS_BUS1_RD
SS_BUS1_WR	35	36	SS_BUS1_STRB
SS_BUS1_A0	37	38	SS_BUS1_A1
SS_BUS1_A2	39	40	SS_BUS1_A3
SS_BUS1_A4	41	42	SS_BUS1_A5
SS_BUS1_A6	43	44	SS_BUS1_A7
SS_BUS1_A8	45	46	SS_BUS1_A9
SS_BUS1_A10	47	48	SS_BUS1_A11
SS_BUS1_A12	49	50	SS_BUS1_A13
SS_BUS1_A14	51	52	SS_BUS1_A15
SS_BUS1_A16	53	54	SS_BUS1_A17
SS_BUS1_A18	55	56	SS_BUS1_A19
SS_BUS1_A20	57	58	SS_BUS1_A21
SS_BUS1_A22	59	60	SS_BUS1_A23
SS_BUS1_A24	61	62	SS_BUS1_A25
SS_BUS1_D0	63	64	SS_BUS1_D1
SS_BUS1_D2	65	66	SS_BUS1_D3
SS_BUS1_D4	67	68	SS_BUS1_D5
SS_BUS1_D6	69	70	SS_BUS1_D7
GND	71	72	GND
SS_SYP81_CK	73	74	SS_SYP81_CMD
SS_SYP81_RES	75	76	SS_SYP81_RDY
SS_SYP81_CS	77	78	FP_BOARD_DET
SS_TF_CK	79	80	SS_TF_CS
SS_TF_CMD	81	82	SS_TF_XR_REQ
SS_TF_XS_REQ	83	84	SS_TF_RES
+3.4V	85	86	+3.4V
+6.2V	87	88	+6.2V
+18V	89	90	+18V
+18V	91	92	+18V
-6.2V	93	94	-6.2V
+15V	95	96	+15V
GND	97	98	GND
GND	99	100	GND

MB-884 BOARD		CONNECTION	
SHEET No.	REF No.		
(1/11)	CN1	EQ-84	(CN1)
	CN3	AU-272	(CN3)
(2/11)	CN4	APR-52	(CN5)
	CN5		(CN6)
	CN6		(CN7)
(3/11)	CN7	SS-89	(CN7)
	CN8		(CN8)
	CN9		(CN9)
(4/11)	CN10	DM-123	(CN10)
(5/11)	CN13	DPR-155/DPR-229	(CN13)
	CN14		(CN14)
	CN15		(CN15)
(6/11)	CN16	EPR-1	(CN16)
	CN17		(CN17)
	CN18		(CN18)
(7/11)	CN19	HPR-1	(CN19)
	CN20		(CN20)
	CN21		(CN21)
(8/11)	CN22	HIF-1/VN-13	(CN22)
	CN23		(CN23)
	CN24		(CN24)
(9/11)	CN25	VPR-64/VPR-91	(CN25)
	CN26		(CN27)
	CN27		(CN28)
(10/11)	CN41	CP-350	(CN41)
	CN42	CP-371	(CN42)
	CN51	FP-133	(CN51)
(11/11)	CN61	DR-414/DR-508	(CN61)
	CN62		(CN62)
	CN65	FACTORY USE	
	CN67		
	CN68	AE-31	(CN800)
	CN69	CUE-13	(CN69)
	CN71	FAN1	
	CN72	FAN2	
	CN73	FAN3	
	CN74	FAN4	
	CN81	FACTORY USE	
	CN82		
	CN83		
	CN84		
	CN85		
	CN86		
	CN87		
	CN100	SWITCHING REGULATOR	

FAN1

CN71	
SIGNAL NAME	
1	+12V
2	FAN_SENS1
3	GND

FAN2

CN72	
SIGNAL NAME	
1	+12V
2	FAN_SENS2
3	GND

JTAG

CN67	
SIGNAL NAME	
1	TD0
2	TD5
3	TD6
4	TD8
5	TMS1
6	TMS2
7	TCK1
8	TCK2
9	TRST1
10	TRST2
11	GND
12	JTEST1
13	JTEST2
14	GND
15	+3.4V
16	GND
17	GND
18	GND
19	GND
20	GND

SW REG

CN100	
SIGNAL NAME	
1	-15V
2	+18V
3	+6.2V
4	+3.4V
5	+3.4V
6	+15V
7	+2.5V
8	GND
9	GND
10	GND
11	SW_LOW_VOLT_SENS
12	FAN_SENS5
13	-6.2V
14	+18V
15	+6.2V
16	+3.4V
17	+3.4V
18	+2.5V
19	+2.5V
20	GND
21	GND
22	GND
23	GND
24	+12V

SMD

CN85 +	
SIGNAL NAME	
1	APR_MONI_R_OUT 00
2	APR_MONI_R_OUT 01
3	APR_MONI_R_OUT 02
4	APR_MONI_L_OUT 00
5	APR_MONI_L_OUT 01
6	APR_MONI_L_OUT 02

SMD

CN86 +	
SIGNAL NAME	
1	NC
2	NC
3	NC
4	CUE_MONI 00
5	CUE_MONI 01
6	CUE_MONI 02

CUE

CN69	
SIGNAL NAME	
1	+15V
2	+6.2V
3	+3.4V
4	SS_SYP82_CK
5	APR_CUE_H_PB/L_EE
6	CP_MIC_ON/OFF_CUE
7	GND
8	CUE_MONI 00
9	GND
10	CUE_OUT 00
11	GND
12	CUE_IN 00
13	GND
14	CUE_REC_SIG 00
15	GND
16	AE_CUE_PB_SIG 00

+18V

CN65	
SIGNAL NAME	
1	+18V
2	+18V
3	GND
4	GND

FAN3

CN73	
SIGNAL NAME	
1	+12V
2	FAN_SENS3
3	FAN_CONT_L

SMD

CNB1 *	
SIGNAL NAME	
1	CP_CH1_L1NE 00
2	CP_CH1_L1NE 01
3	CP_CH1_L1NE 02
4	CP_CH2_L1NE 00
5	CP_CH2_L1NE 01
6	CP_CH2_L1NE 02
7	CP_CH3_L1NE 00
8	CP_CH3_L1NE 01
9	CP_CH3_L1NE 02
10	CP_CH4_L1NE 00
11	CP_CH4_L1NE 01
12	CP_CH4_L1NE 02

SMD

CNB2 *	
SIGNAL NAME	
1	APR_CH1_OUT 00
2	APR_CH1_OUT 01
3	APR_CH1_OUT 02
4	APR_CH2_OUT 00
5	APR_CH2_OUT 01
6	APR_CH2_OUT 02
7	APR_CH3_OUT 00
8	APR_CH3_OUT 01
9	APR_CH3_OUT 02
10	APR_CH4_OUT 00
11	APR_CH4_OUT 01
12	APR_CH4_OUT 02

AE

CNB8	
SIGNAL NAME	
1	AE_CH2_PB_SIG 00
2	AE_CH2_PB_SIG 01
3	AE_CH1_PB_SIG 00
4	AE_CH1_PB_SIG 01
5	APR_H_CUE_BIAS_ON
6	APR_P_MUTE_CUE/AE
7	APR_H_ME/L_OX
8	APR_H_ATT_ON
9	APR_H_PB_MUTE
10	APR_H_CUE_REC_MUTE
11	TC_CROSS_TALK 00
12	APR_TC_H_PB/L_REC
13	+6.2V
14	GND
15	CUE_REC_SIG 00
16	CUE_REC_SIG 01
17	AE_CUE_PB_SIG 00
18	AE_CUE_PB_SIG 01
19	AE_CH2_PB_SIG 00
20	AE_CH2_PB_SIG 01
21	AE_CH1_PB_SIG 00
22	AE_CH1_PB_SIG 01
23	APR_H_OSC_ON
24	APR_H_OSC_ON
25	APR_H_OSC_ON
26	APR_H_OSC_ON
27	APR_H_OSC_ON
28	APR_H_OSC_ON
29	TC_CROSS_TALK 01
30	+3.4V
31	-6.2V
32	GND
33	CUE_REC_SIG 02
34	CUE_REC_SIG 03
35	AE_CUE_PB_SIG 02
36	AE_CUE_PB_SIG 03

DR

CNB1	
SIGNAL NAME	
1	DR_AMP_PB_CTL
2	GND DR_AMP_PB_CTL_GND
3	SS_B1M_DRIVE 00
4	SS_B1M_DRIVE 01
5	DT_B1M_DRIVE_CHK 00
6	DT_B1M_DRIVE_CHK 01
7	SS_MODE_SW
8	DT_STG_SIG 00
9	DT_STG_SIG 01
10	DT_STG_SIG 02
11	SS_REC_+SV_ON
12	SS_NVRAM2_SEL
13	DR_SS_JP2
14	L FAN CONT
15	SS_DR_RESET
16	DR_THREAD_END
17	DR_LINTHREAD_END
18	TR_T_TENSION 00
19	TR_T_TENSION 01
20	TR_T_TENSION_CUR
21	DR_TAPE_BEGIN
22	SS_DR_REF
23	SS_DR_SERIAL_CLK
24	DR_SS_SERIAL_DATA
25	SS_DR_SERIAL_DATA
26	SS_DR_CPU_CS
27	SS_DR_EEPROM_CS
28	DR_CPU_BUSY
29	DR_EEPROM_BUSY
30	SS_DRIVE_POWER_ON
31	DR_DRUM_PG
32	DR_DRUM_PG
33	DR_SS_JP4
34	SS_DRUM_DRIVE
35	+3.4V
36	+3.4V
37	+3.4V
38	+3.4V
39	+6.2V
40	+6.2V
41	+6.2V
42	+6.2V
43	-6.2V
44	-6.2V
45	-6.2V
46	-6.2V
47	-15V
48	-15V
49	-15V
50	-15V

DR

CNB2	
SIGNAL NAME	
1	+15V
2	+15V
3	GND
4	GND
5	GND
6	GND
7	DR_T_REEL_FG 00
8	DR_T_REEL_FG 01
9	DR_T_REEL_FG 02
10	SS_T_REEL_DRIVE
11	SS_T_REEL_DRIVE
12	SS_REF_+SV
13	DR_S_REEL_FG 00
14	DR_S_REEL_FG 01
15	DR_S_REEL_FG 02
16	SS_S_REEL_DRIVE
17	SS_S_REEL_DRIVE
18	SS_CAPSTAN_DRIVE
19	SS_CAPSTAN_DRIVE
20	TR_S_TENSION 00
21	SS_CAPSTAN_DRIVE
22	DR_CAPSTAN_FG 00
23	DR_CAPSTAN_FG 01
24	DR_CAPSTAN_FG 02
25	TR_S_TENSION_CUR
26	TR_S_TENSION 01
27	TR_S_TENSION 02
28	SS_LOADING_CONT1
29	SS_LOADING_CONT2
30	SS_LOADING_DRIVE
31	DR_LOADING_FG
32	DR_TAPE_END
33	SS_REC_CTL
34	DR_PB_CTL
35	SS_CTL_REC_ON
36	DM_DR_GAUSS
37	SS_REC_LTC
38	TC_PB_LTC
39	APR_H_OSC_ON
40	APR_H_FULLERS_ON
41	APR_H_TC_ERS_ON
42	APR_H_TC_LPF_ON
43	APR_TC_H_PB/L_REC
44	APR_H_TC_HPF_ON
45	APR_H_TC_REC_G_LUP
46	APR_H_TC_PB_G_LUP
47	APR_P_MUTE_HP/TC
48	TC_CROSS_TALK 00
49	TC_CROSS_TALK 01
50	APR_TC_JP1

SMD

CNB3 *	
SIGNAL NAME	
1	AU_SP_CH1 00
2	AU_SP_CH1 01
3	AU_SP_CH1 02
4	AU_SP_CH2 00
5	AU_SP_CH2 01
6	AU_SP_CH2 02
7	AU_SP_CH3 00
8	AU_SP_CH3 01
9	AU_SP_CH3 02
10	AU_SP_CH4 00
11	AU_SP_CH4 01
12	AU_SP_CH4 02

SMD

CNB4 *	
SIGNAL NAME	
1	AU_SP_CH1 00
2	AU_SP_CH1 01
3	AU_SP_CH1 02
4	AU_SP_CH2 00
5	AU_SP_CH2 01
6	AU_SP_CH2 02
7	AU_SP_CH3 00
8	AU_SP_CH3 01
9	AU_SP_CH3 02
10	AU_SP_CH4 00
11	AU_SP_CH4 01
12	AU_SP_CH4 02

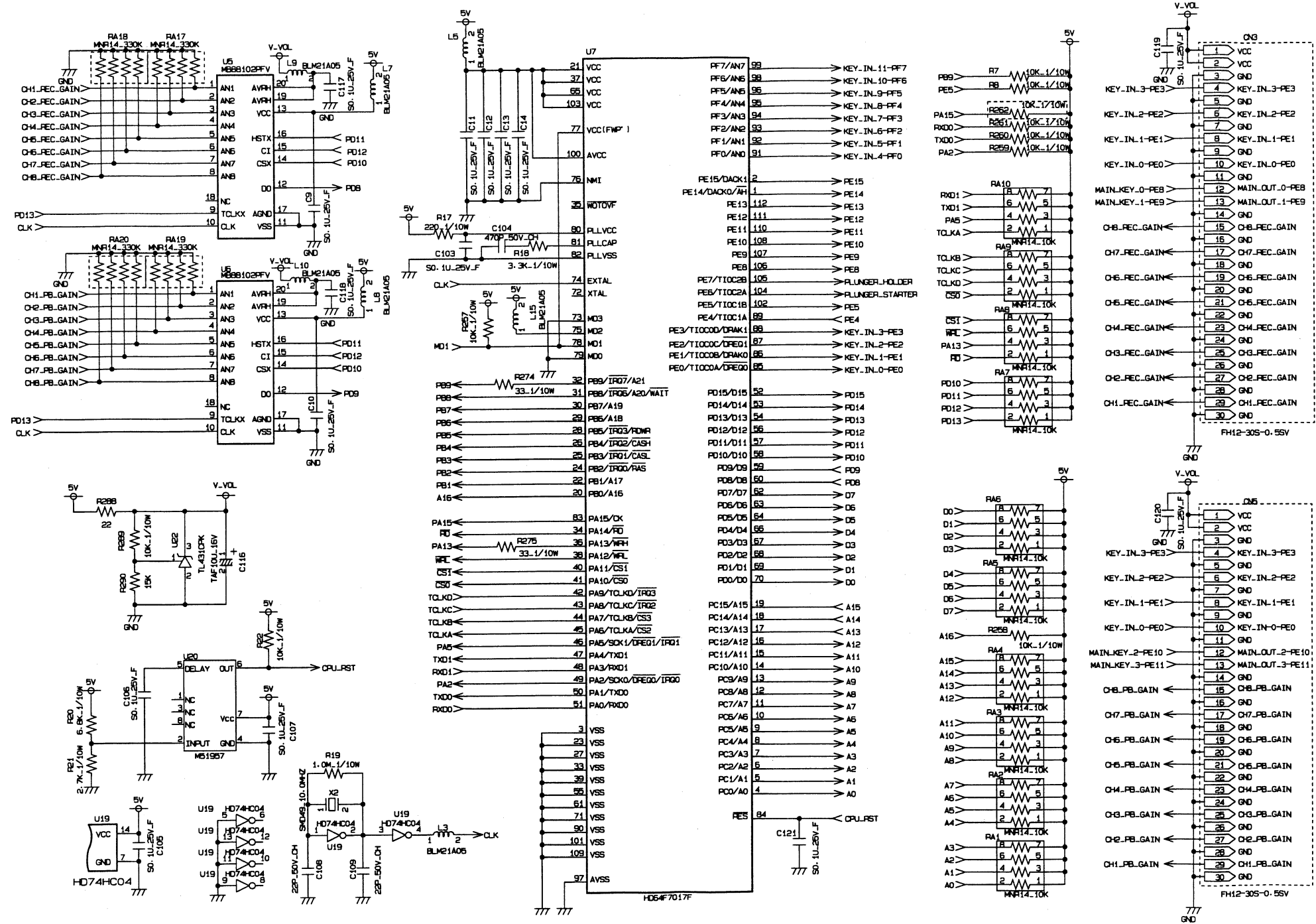
SMD

CNB7 *	
SIGNAL NAME	
1	APR_HP_R 00
2	APR_HP_R 01
3	HP_R_VAR 00
4	HP_R_VAR 01
5	APR_HP_L 00
6	APR_HP_L 01
7	HP_L_VAR 00
8	HP_L_VAR 01

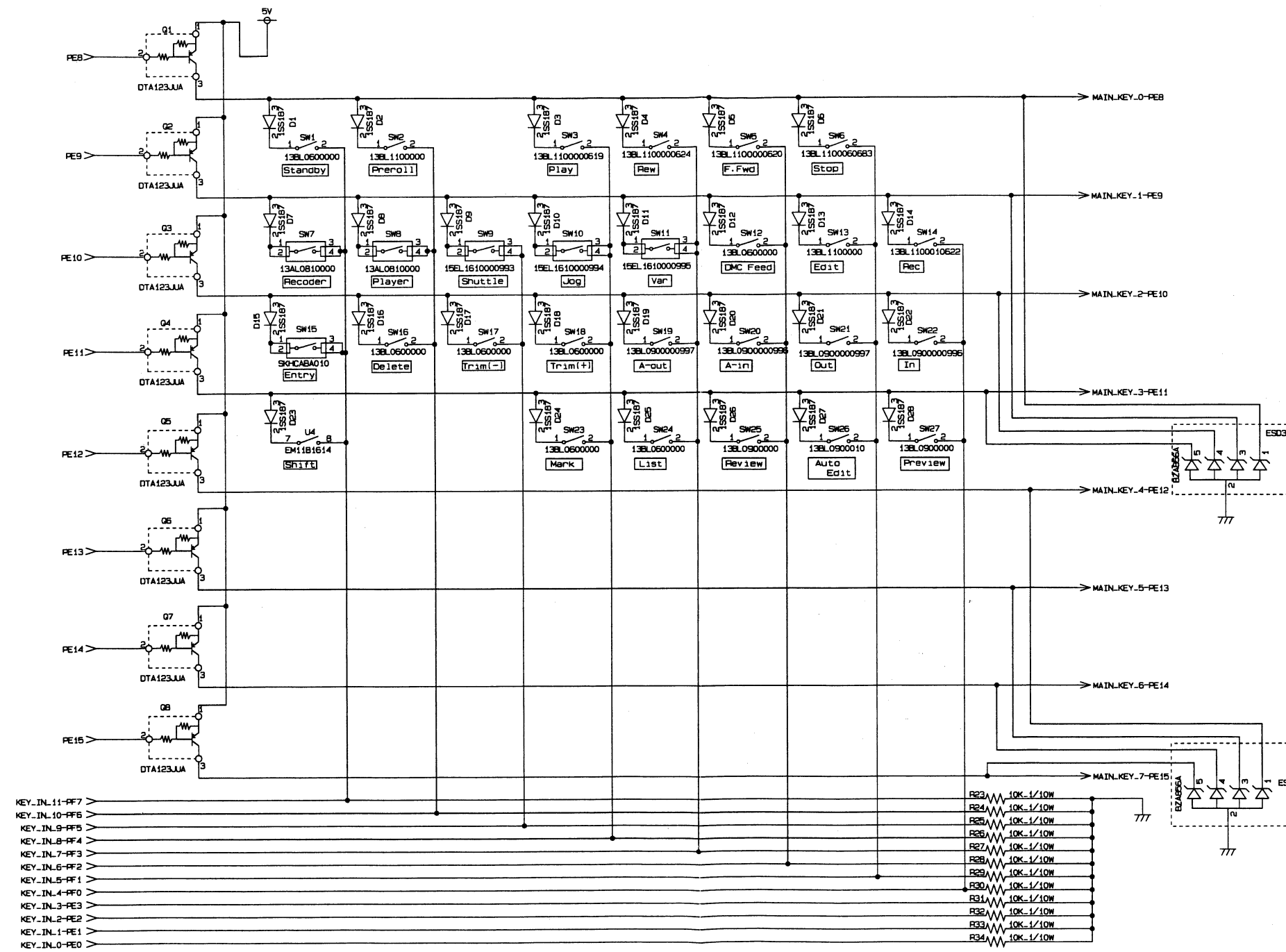
FAN4

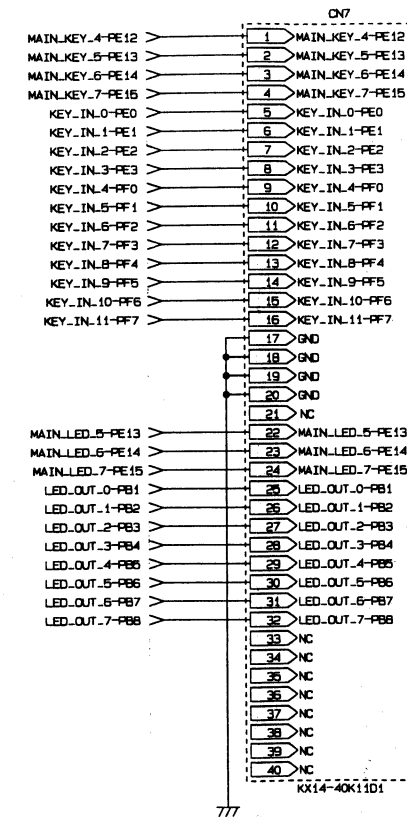
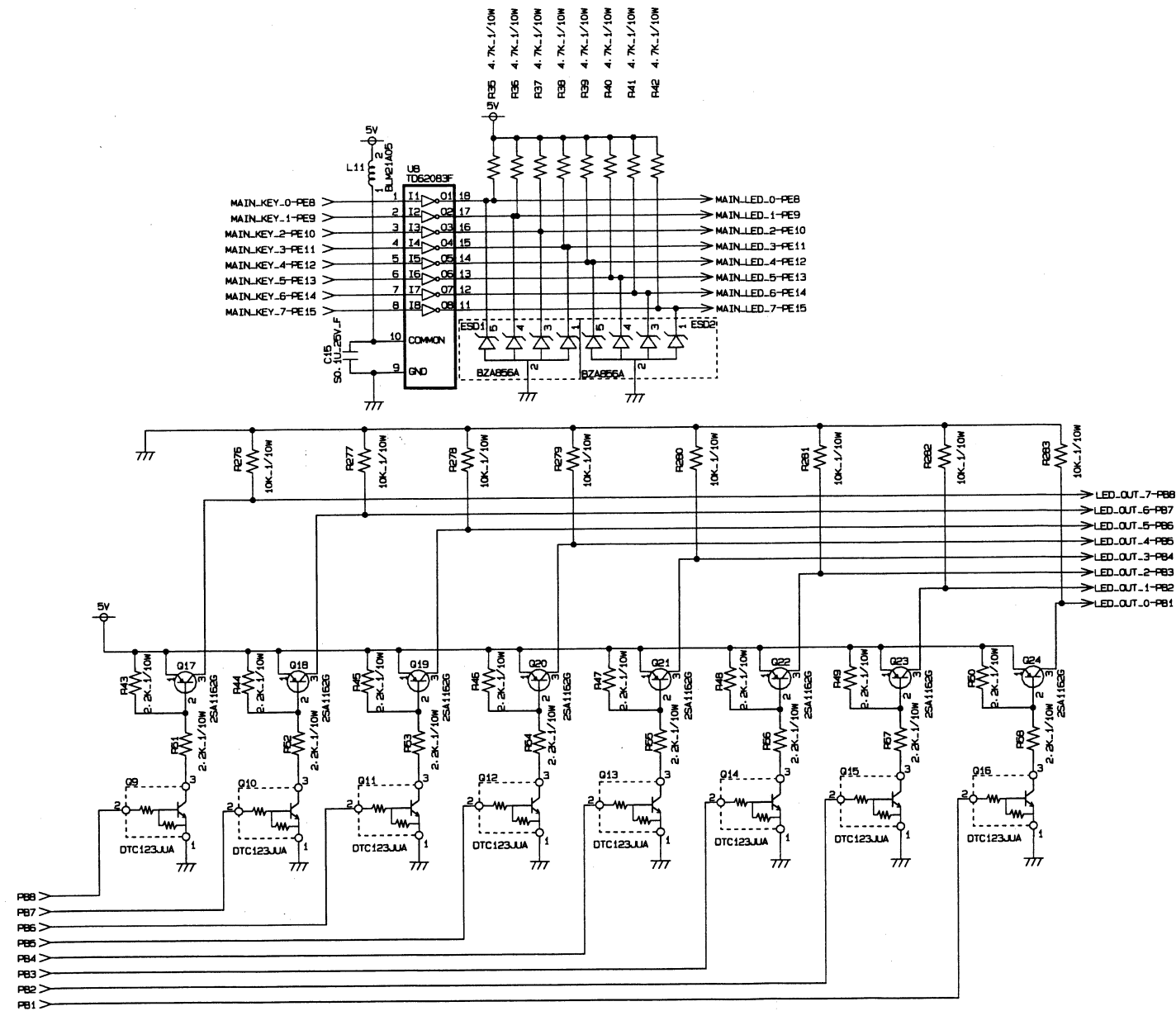
CN74	
SIGNAL NAME	
1	+12V
2	FAN_SENS4
3	FAN_CONT_L

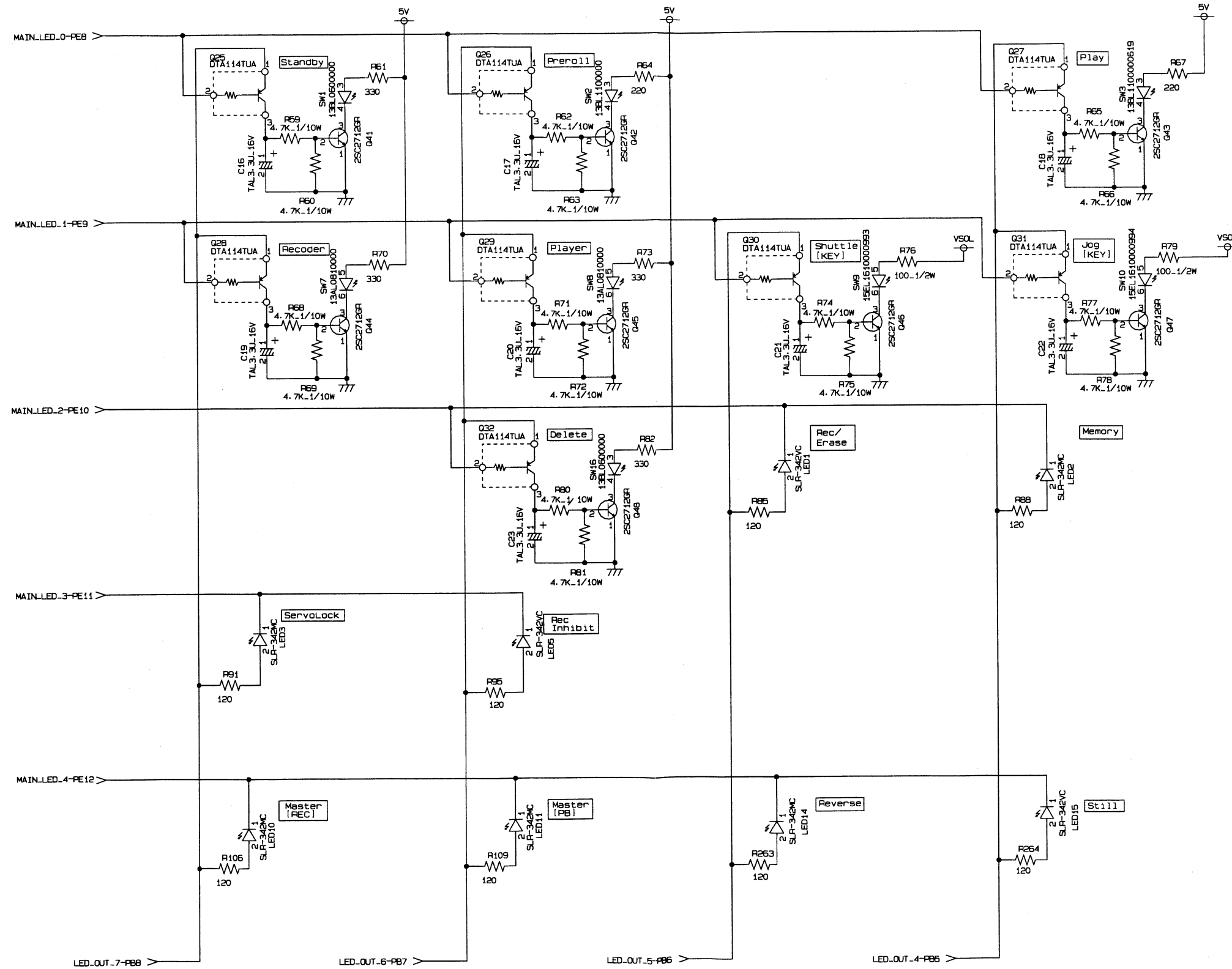
* NOTE		
LOT NO.	REF NO.	DESCRIPTION
2C1-	CN81-87	DELETED



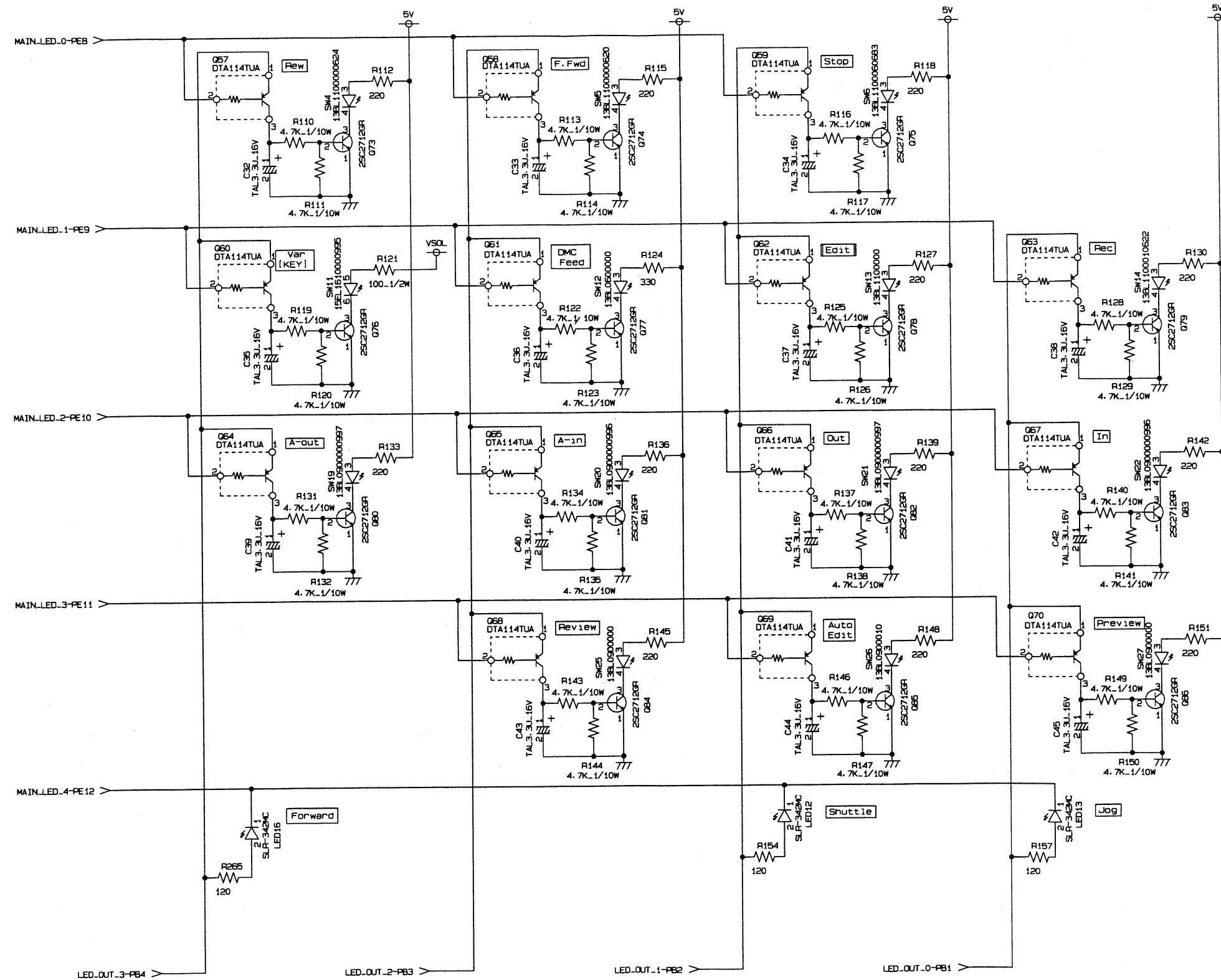
Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ834 (KY-464) (2/9)



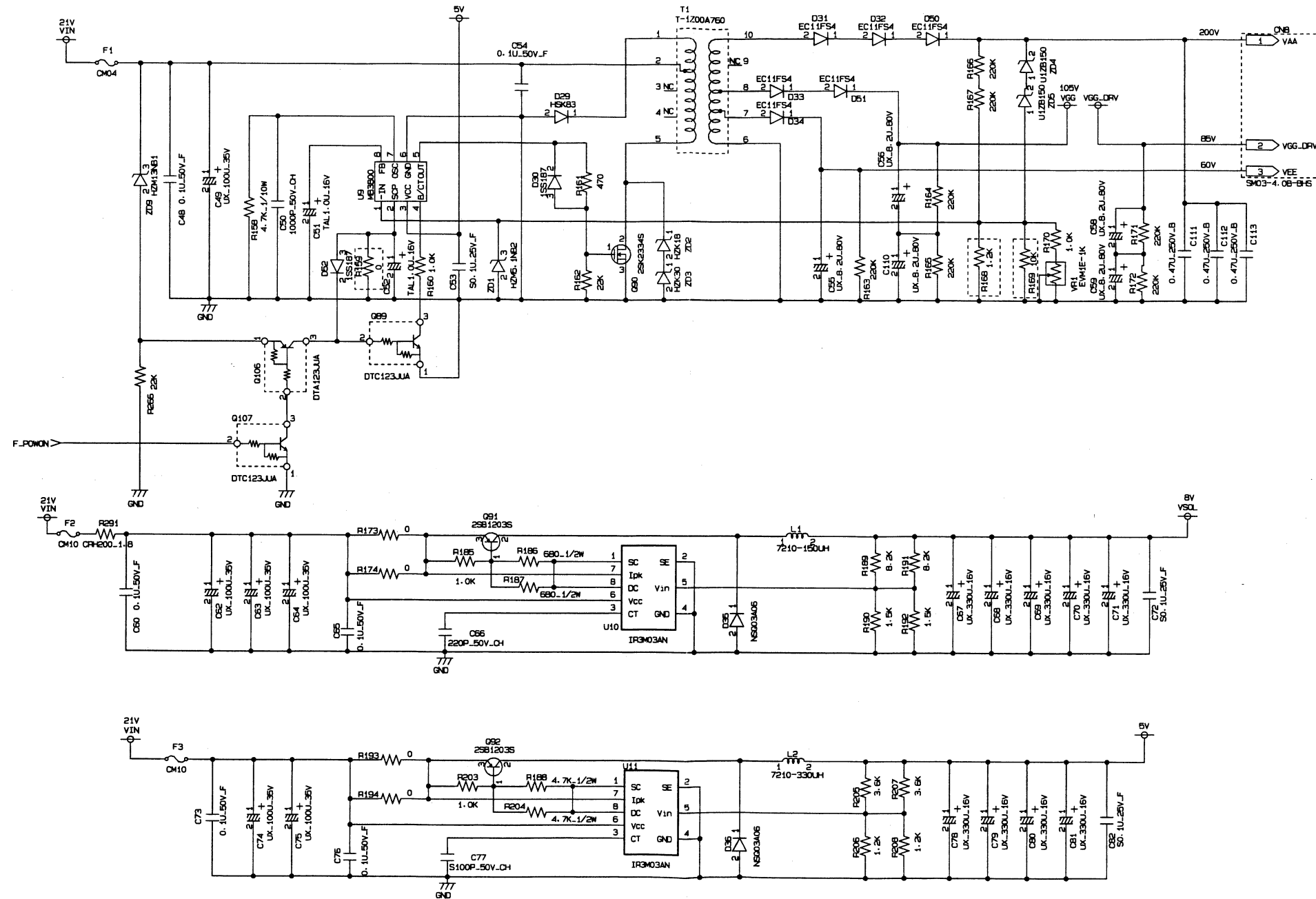




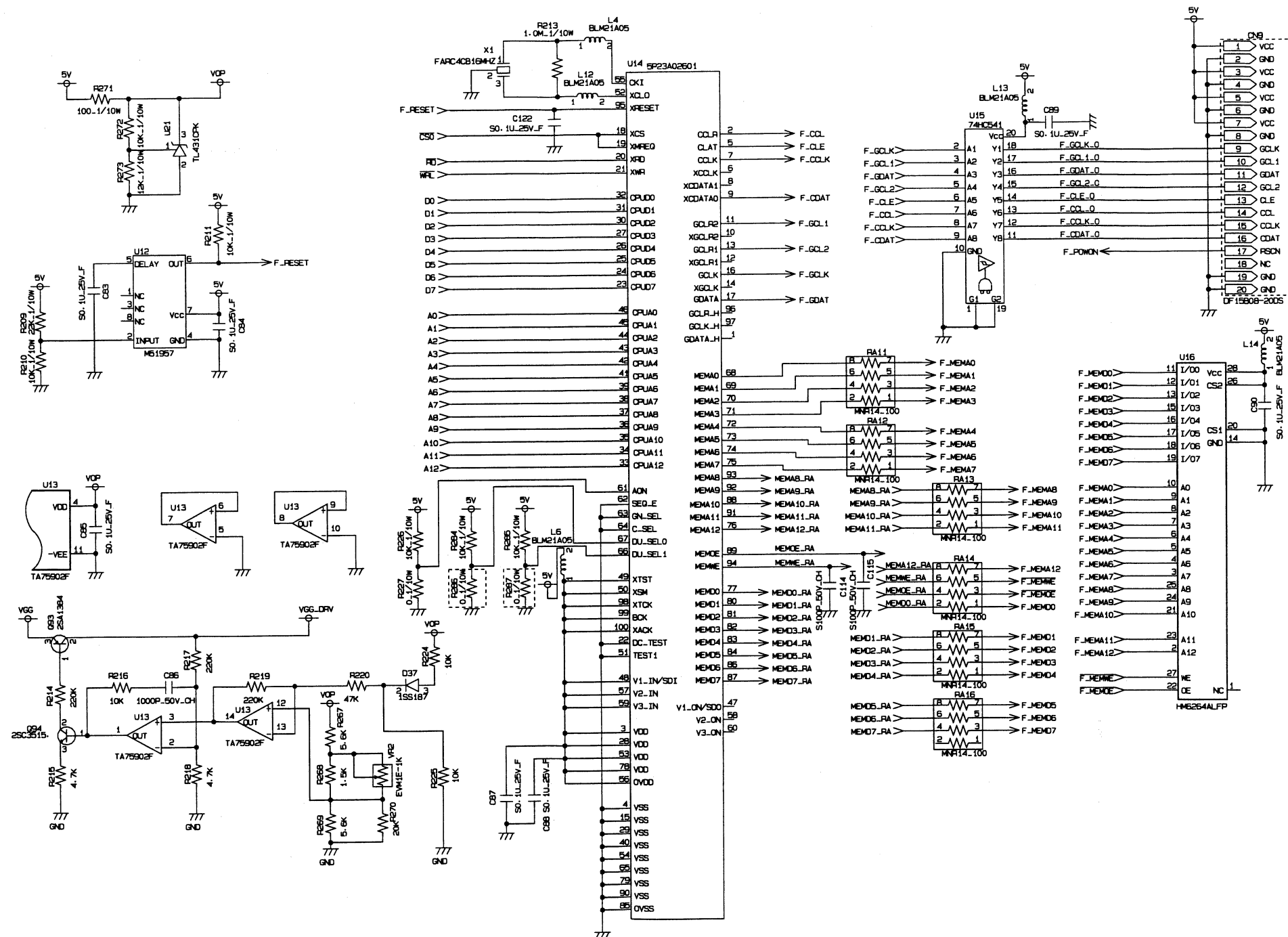
Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ834 (KY-464) (5/9)



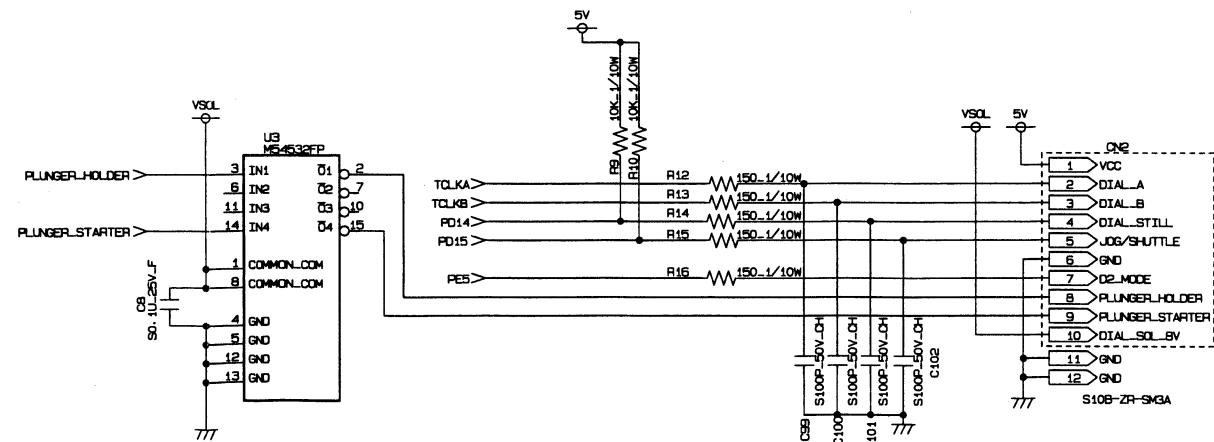
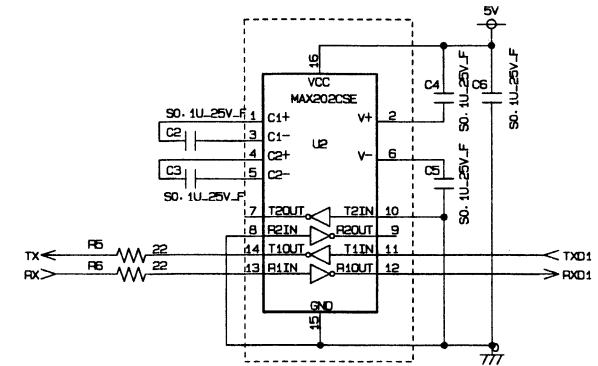
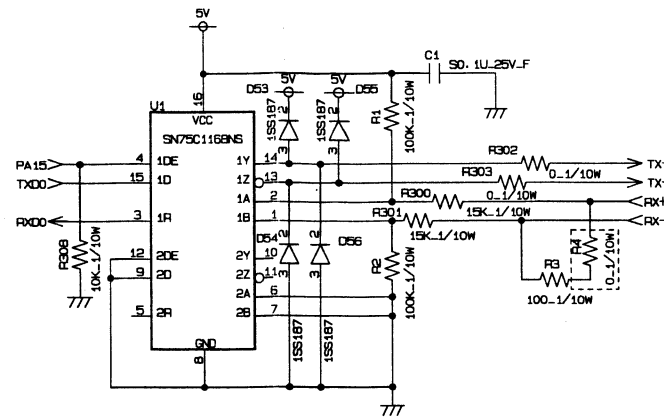
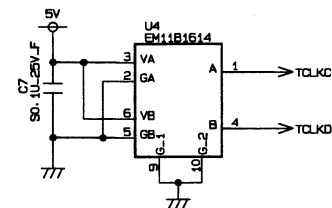
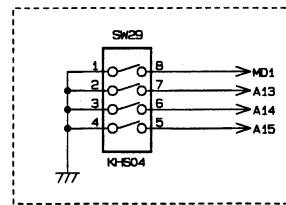
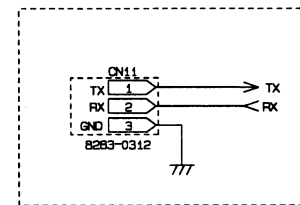
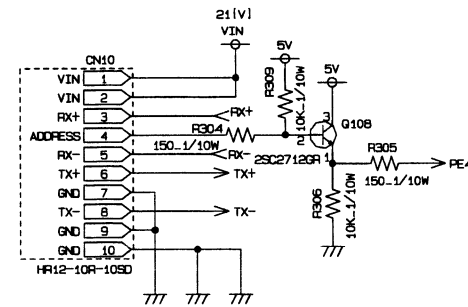
Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ834 (KY-464) (6/9)

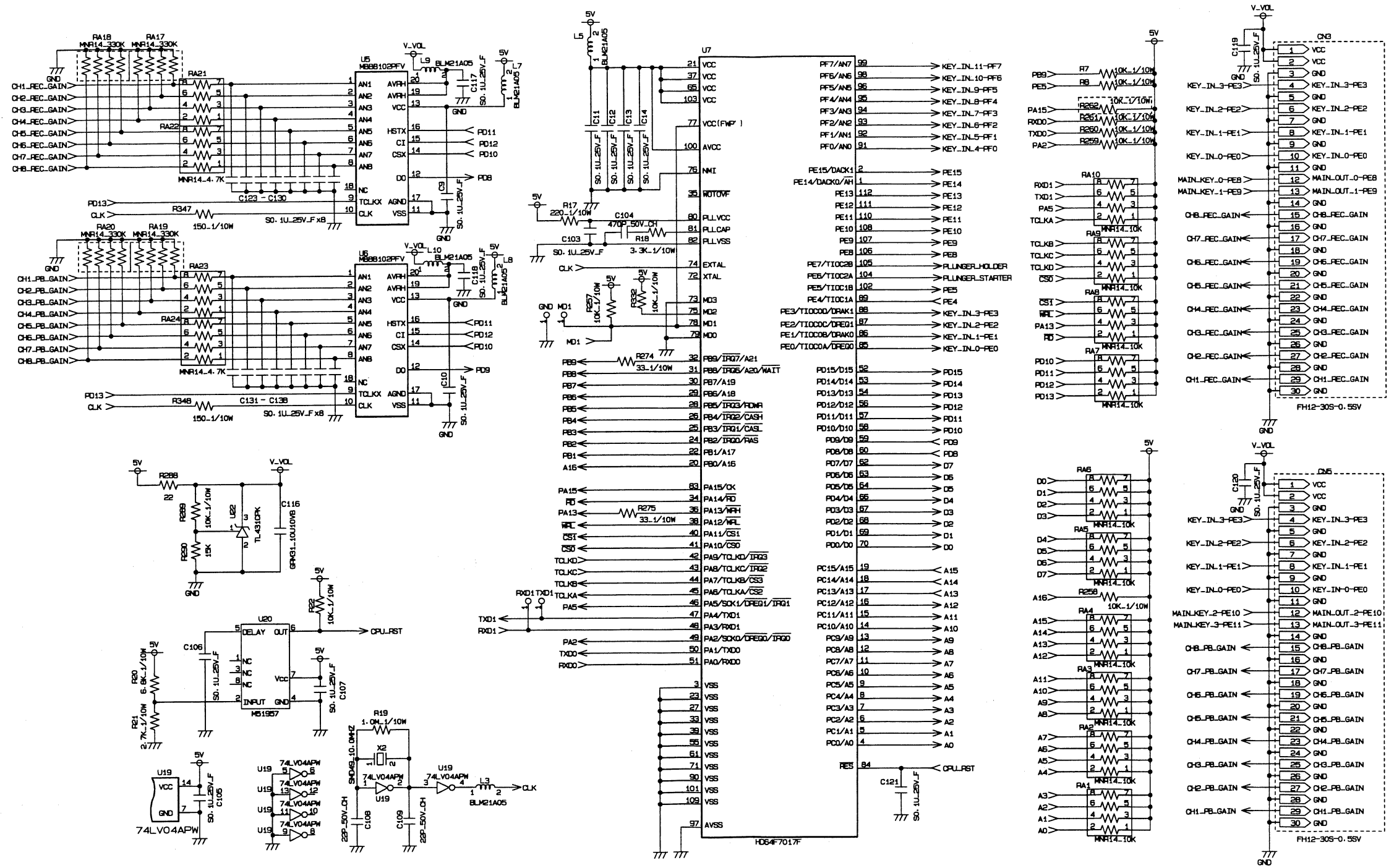


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ834 (KY-464) (7/9)

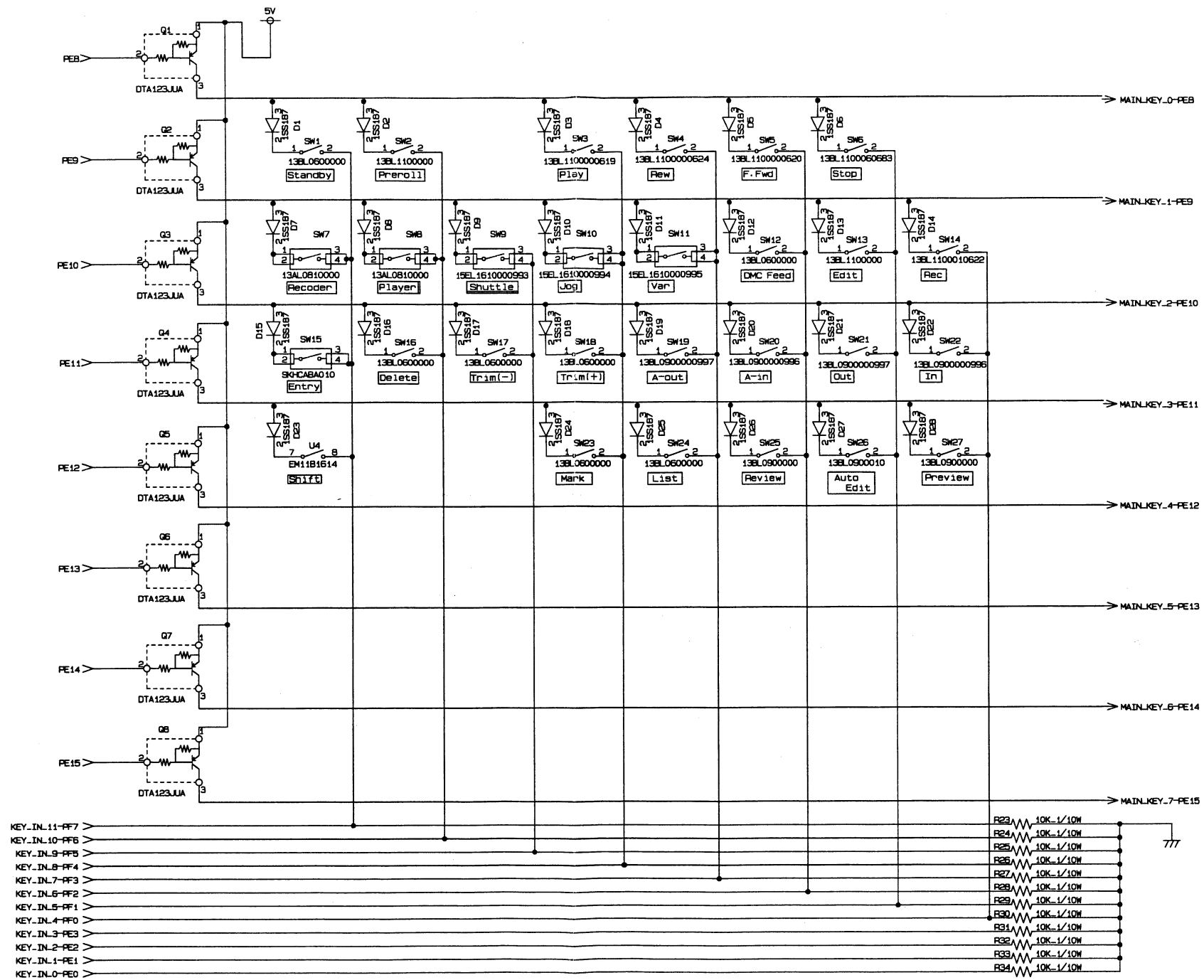


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ834 (KY-464) (8/9)



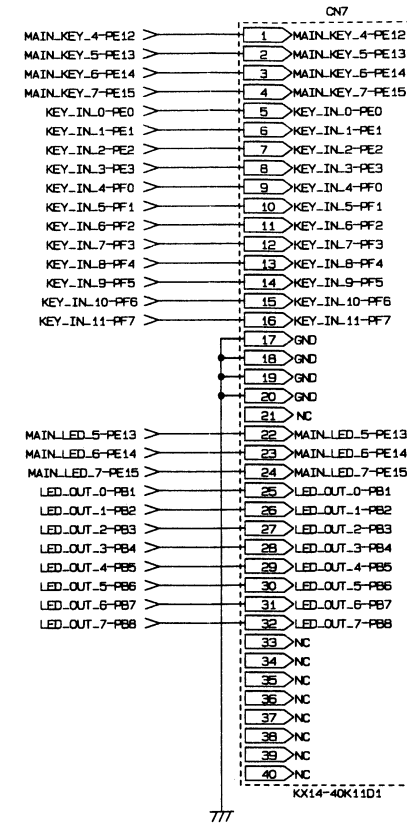
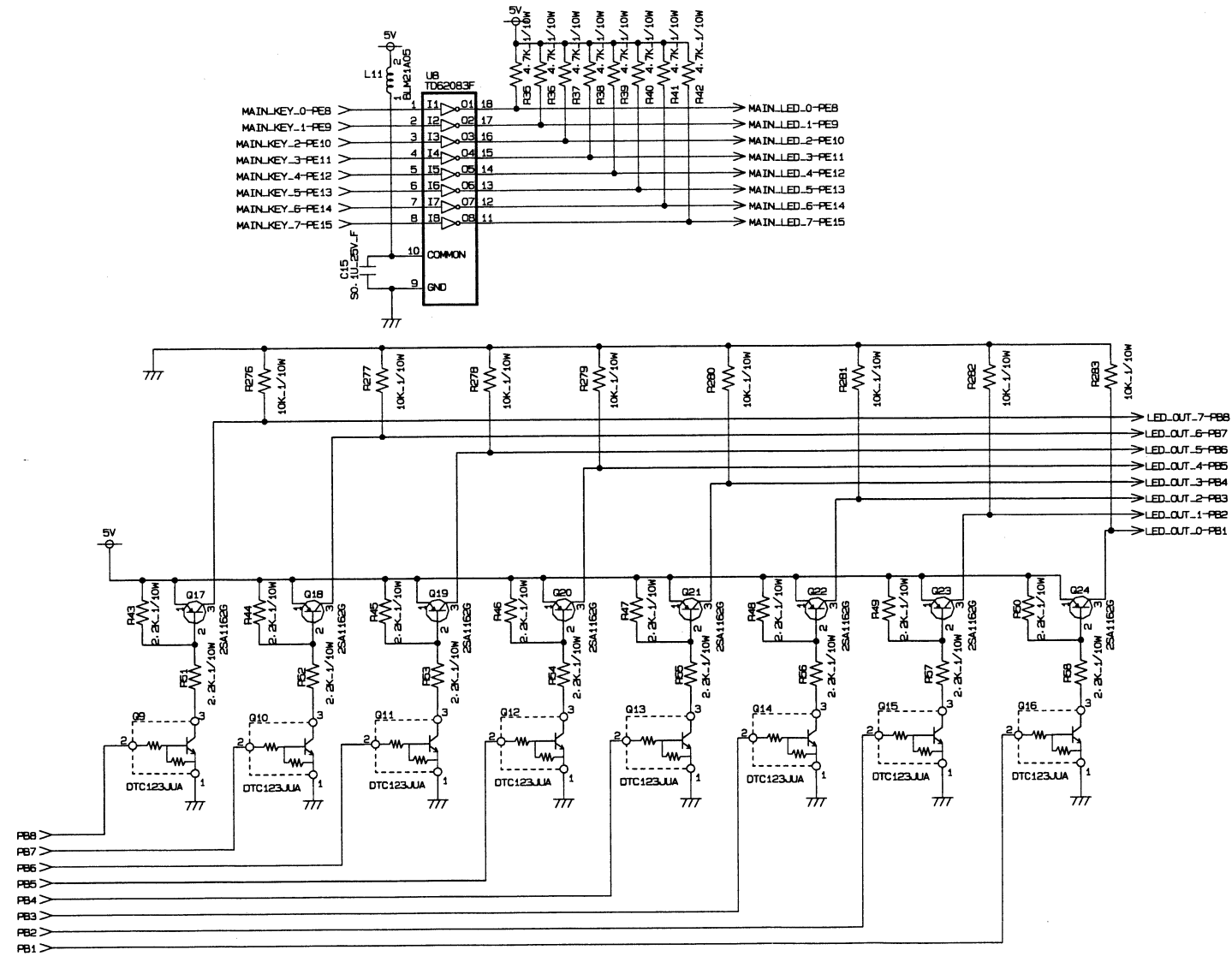


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (2/9)

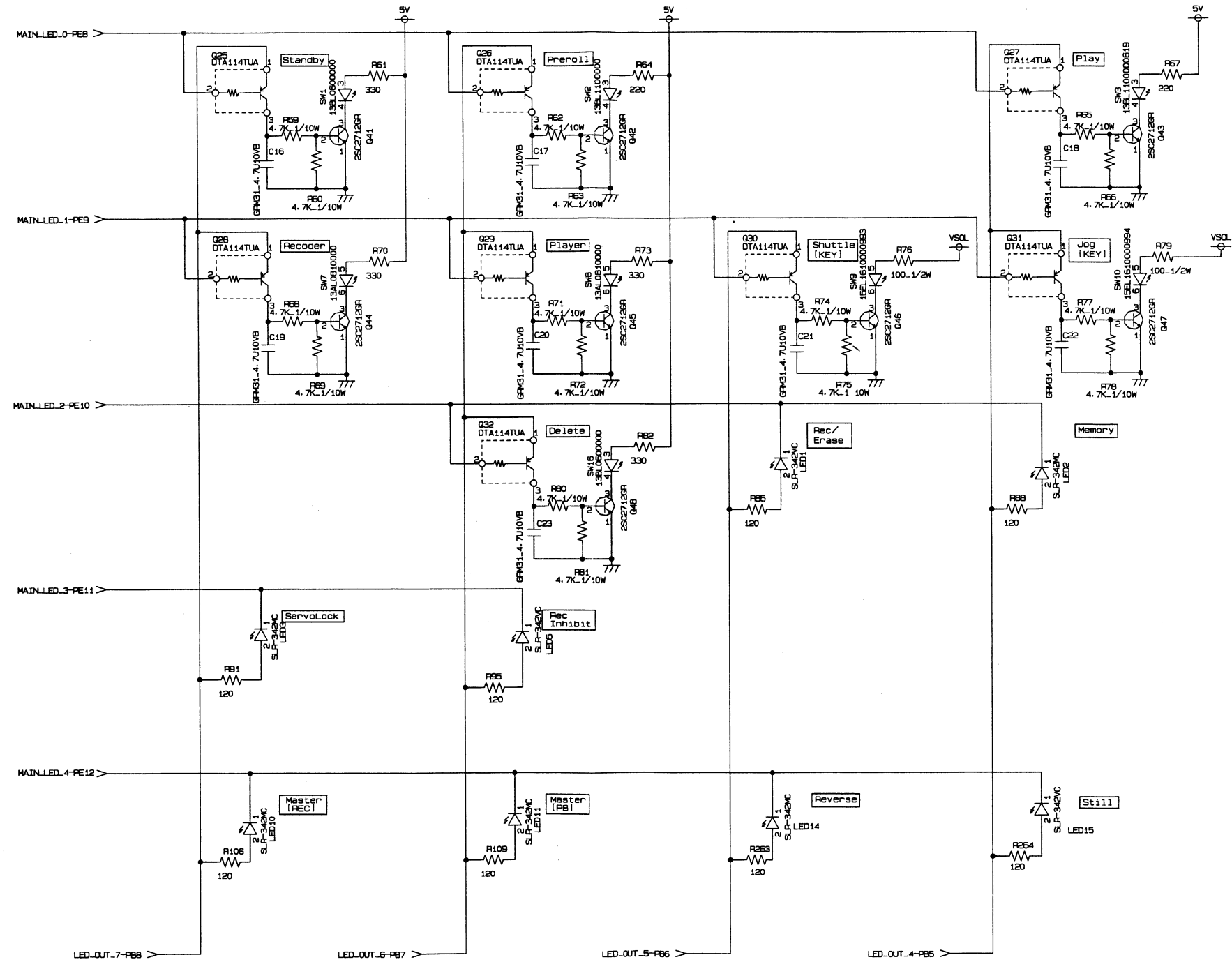


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (3/9)

HDW series, DVW series, MSW series

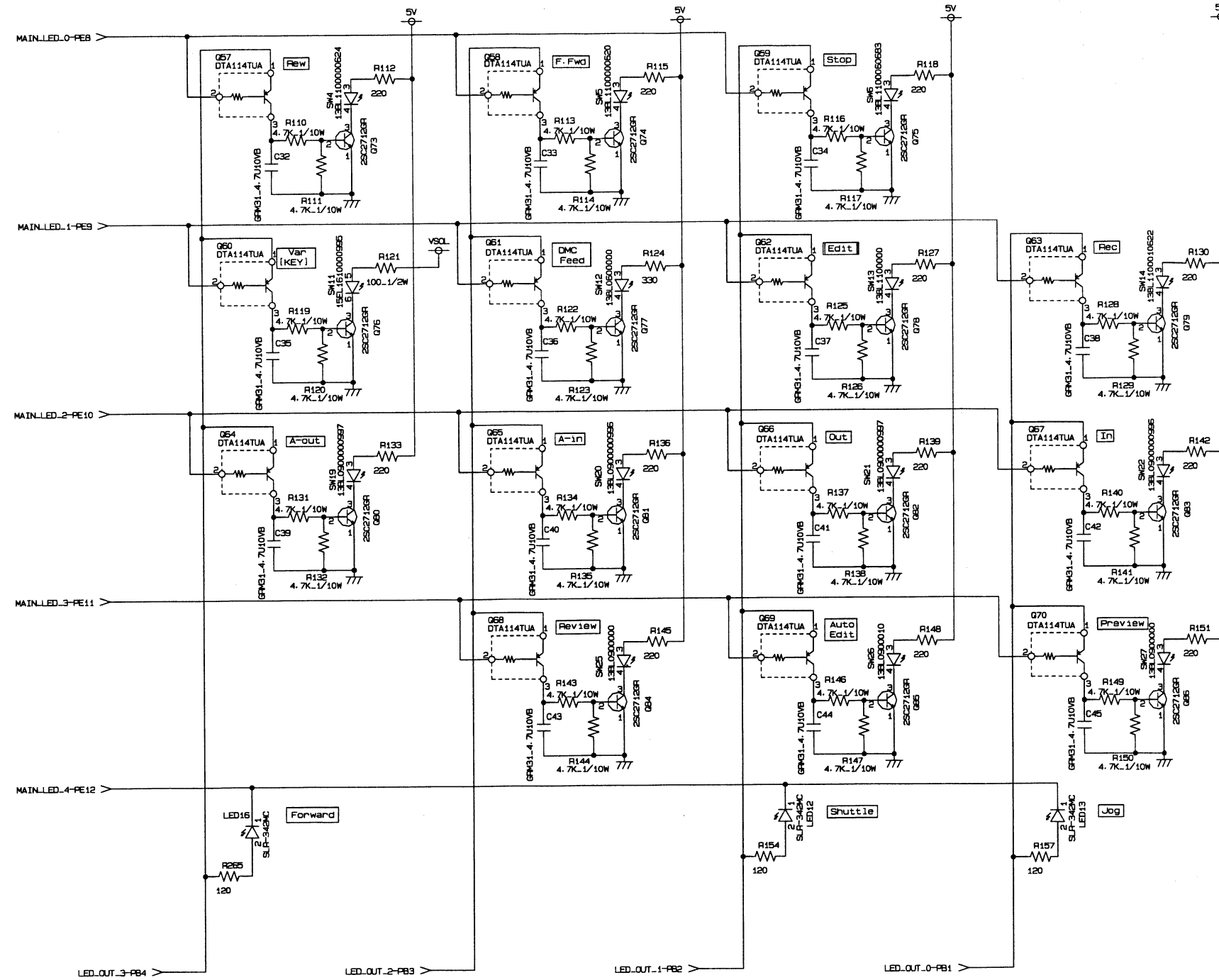


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (4/9)

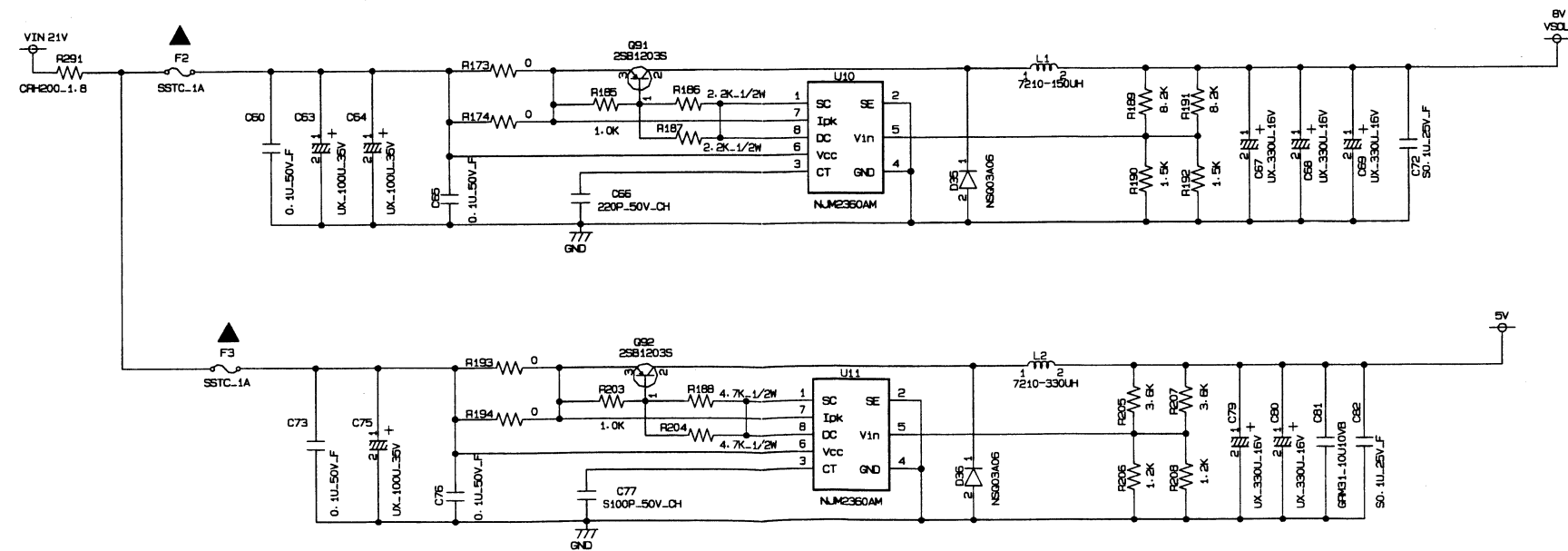
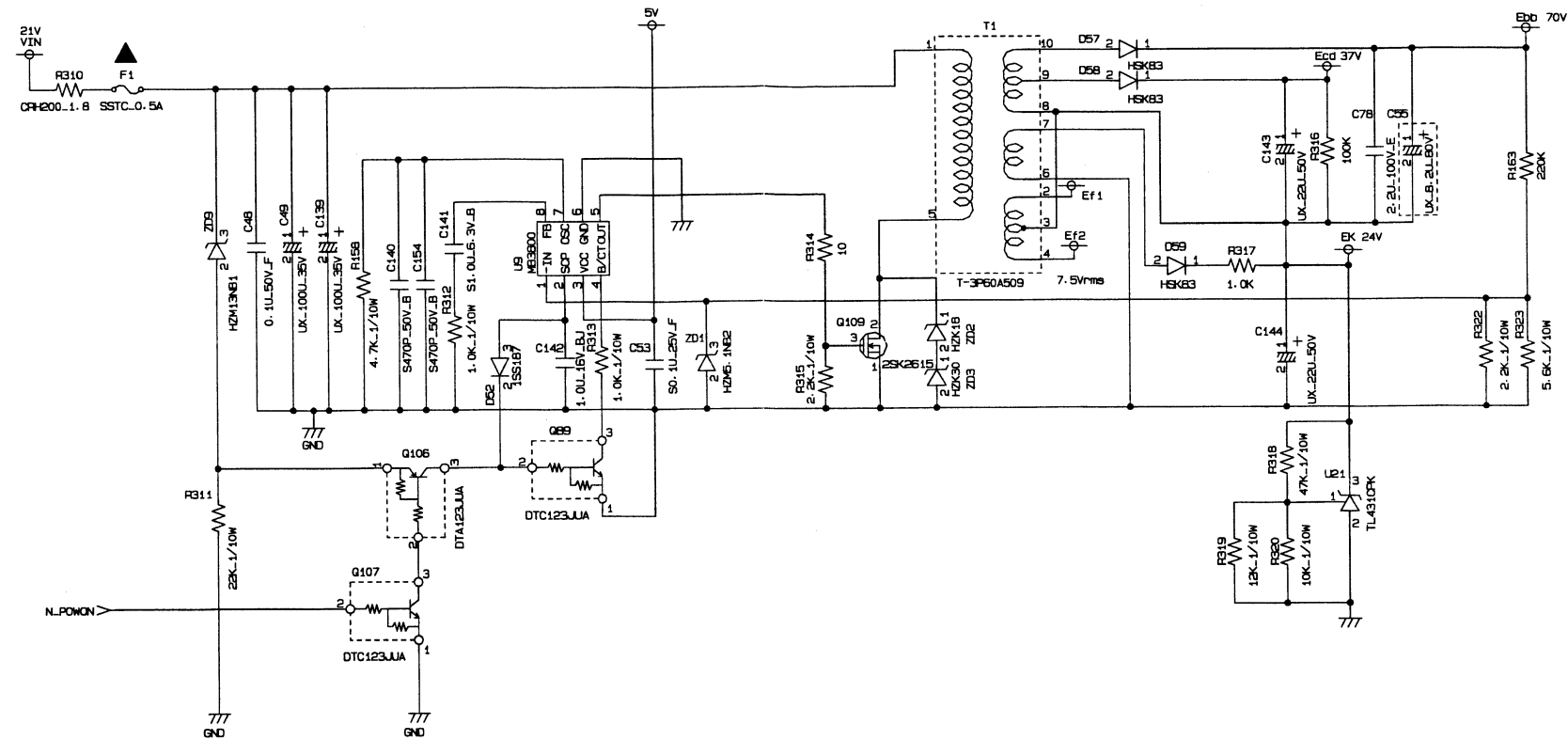


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (5/9)

HDW series, DVW series, MSW series

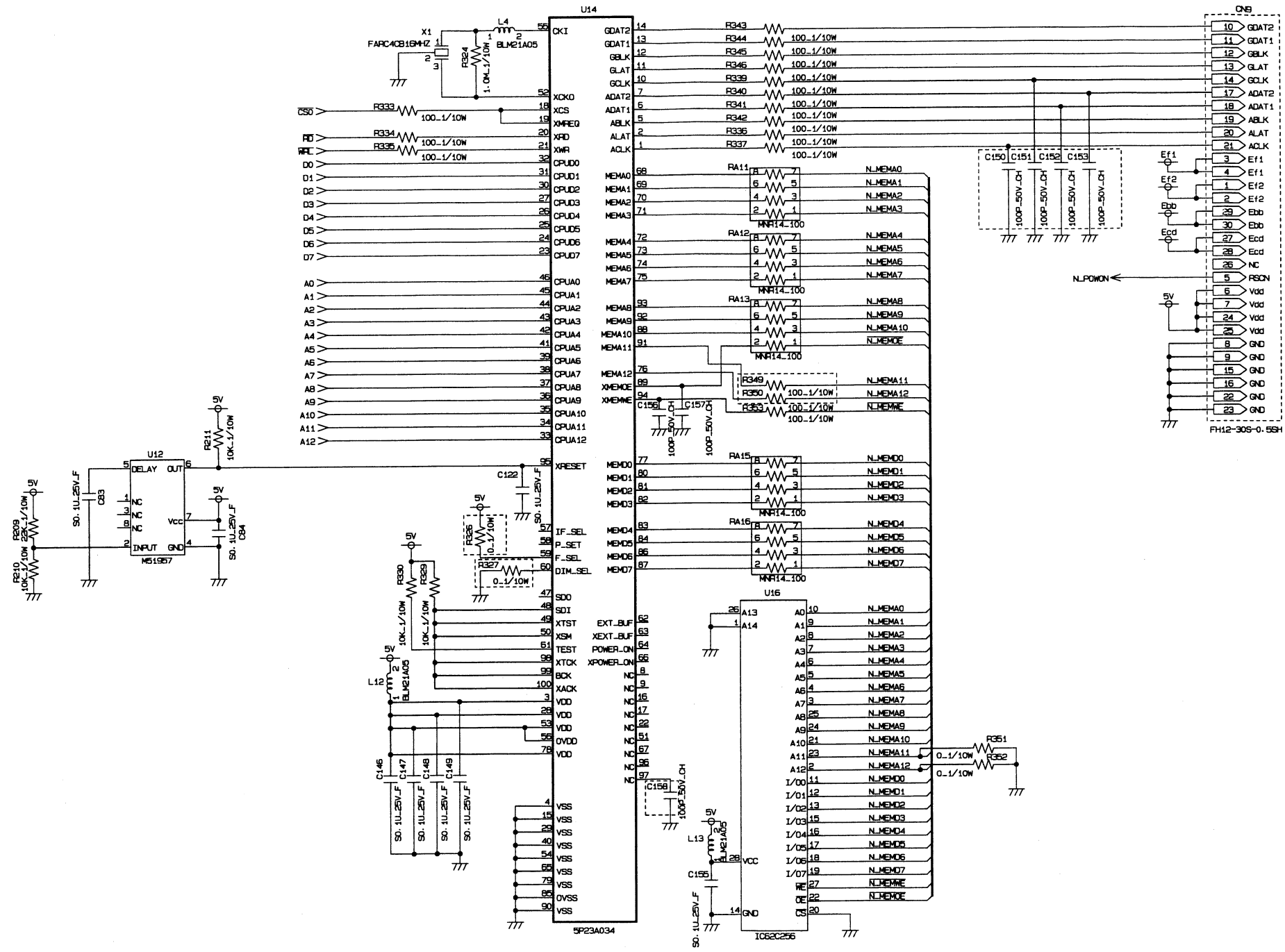


Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (6/9)



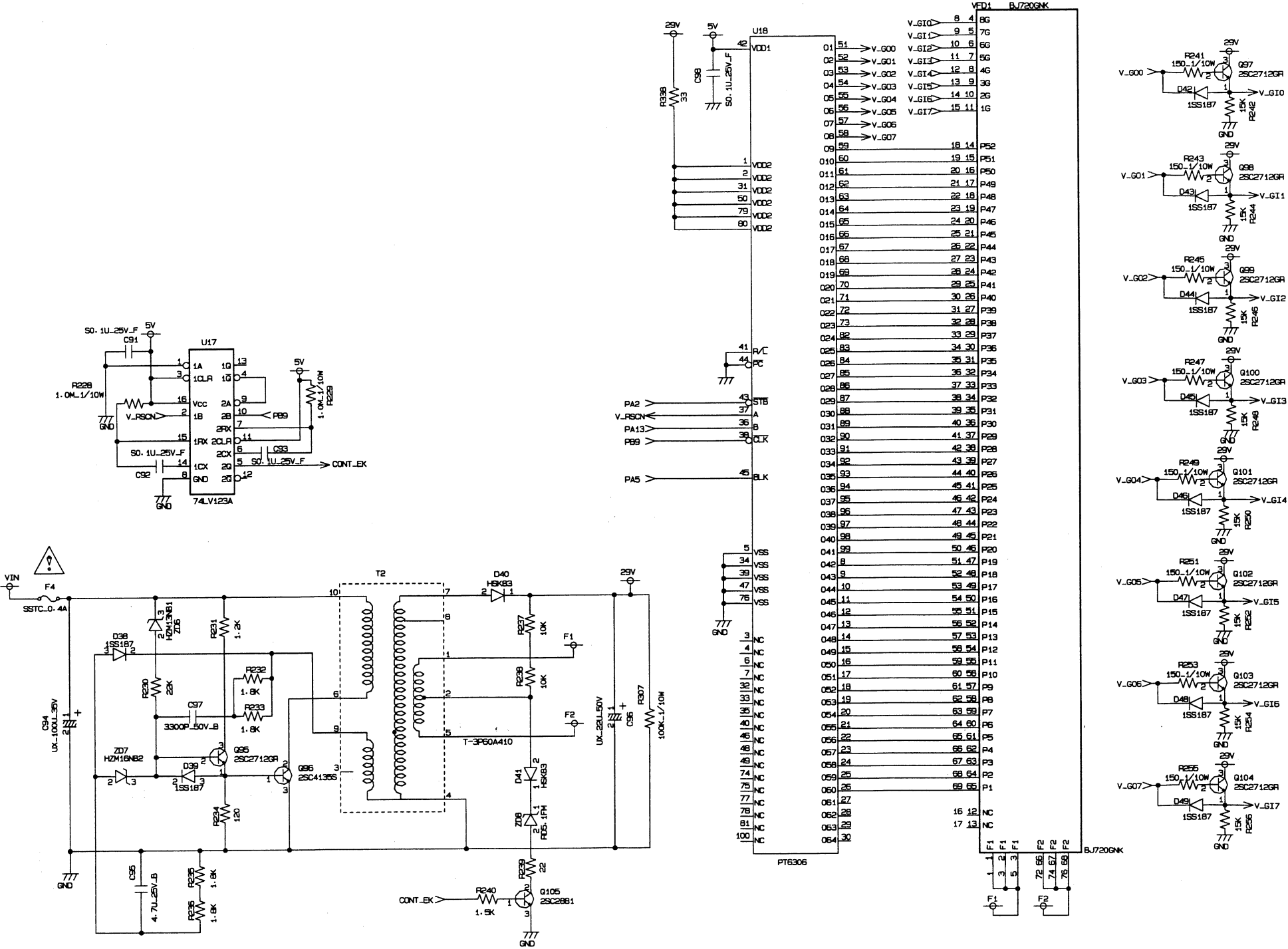
Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (7/9)

HDW series, DVW series, MSW series

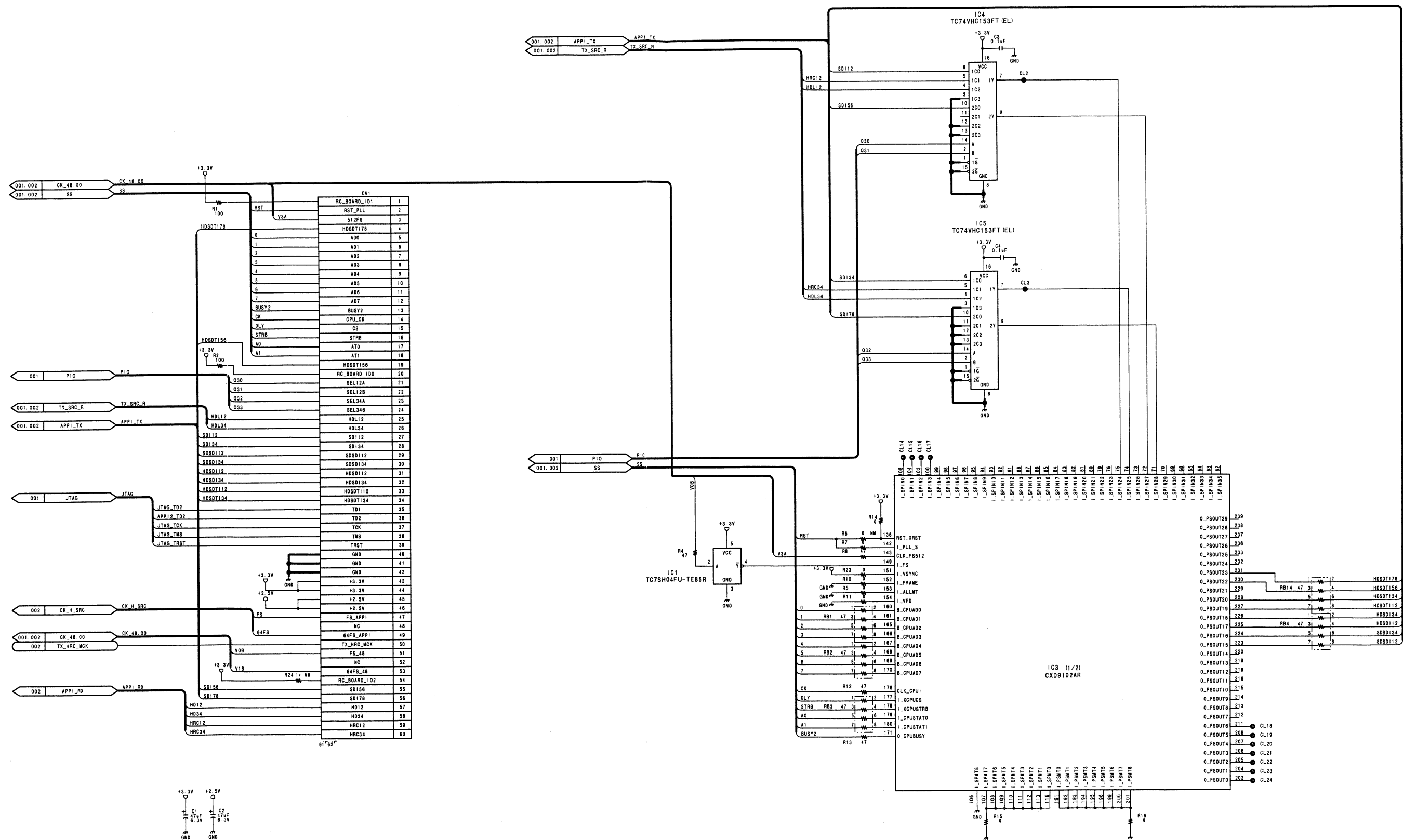


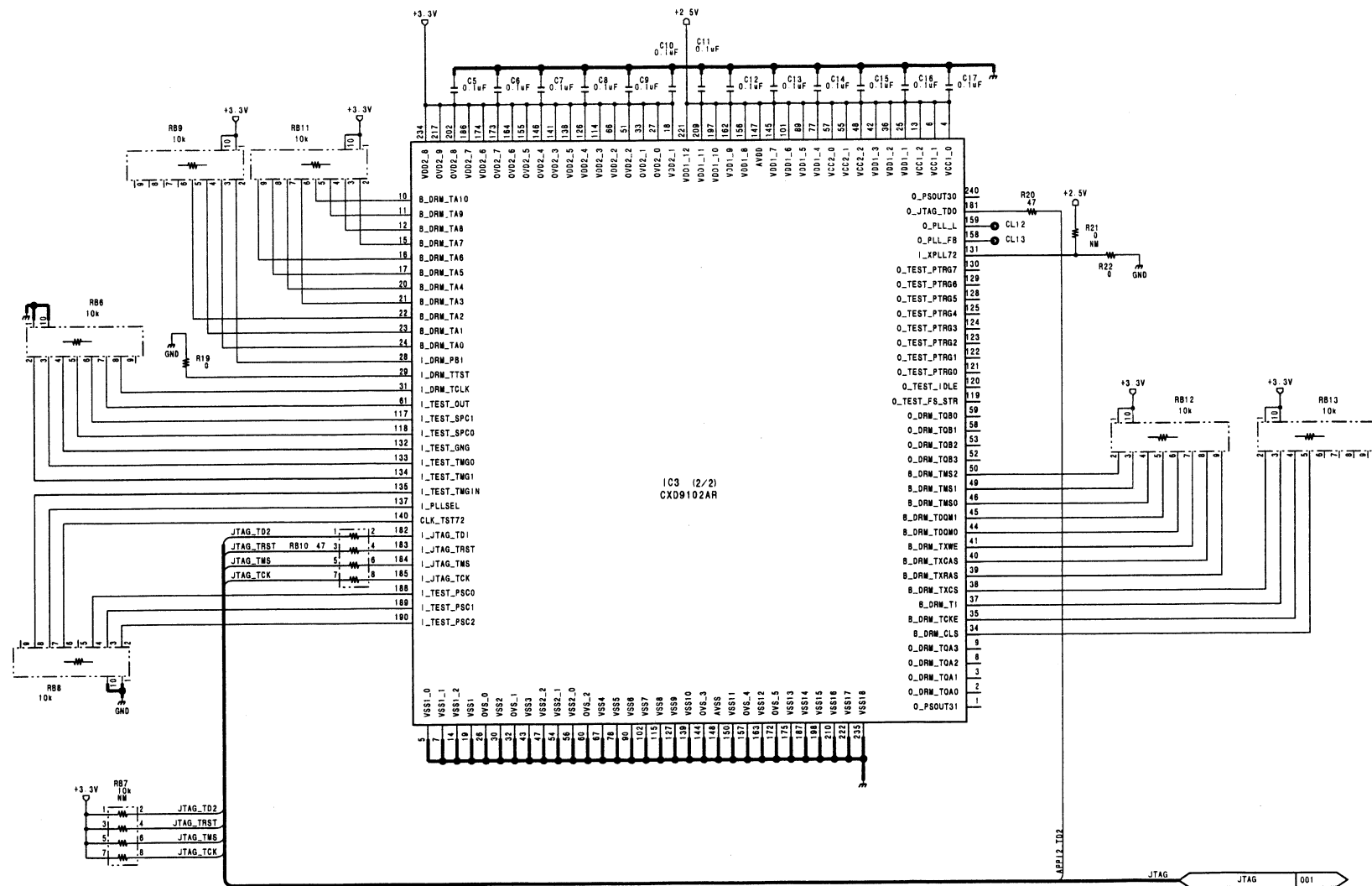
Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (8/9)





Lower control panel function
(Audio signal selection switches, Menu control switches)
MBJ907B (KY-569) (9/9)





Audio rate converter

RC-89H (1/2)

BOARD NO. 1-679-846-13, 14

RC-89H: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100

LOT NO. 4C2- For HDW-D2000

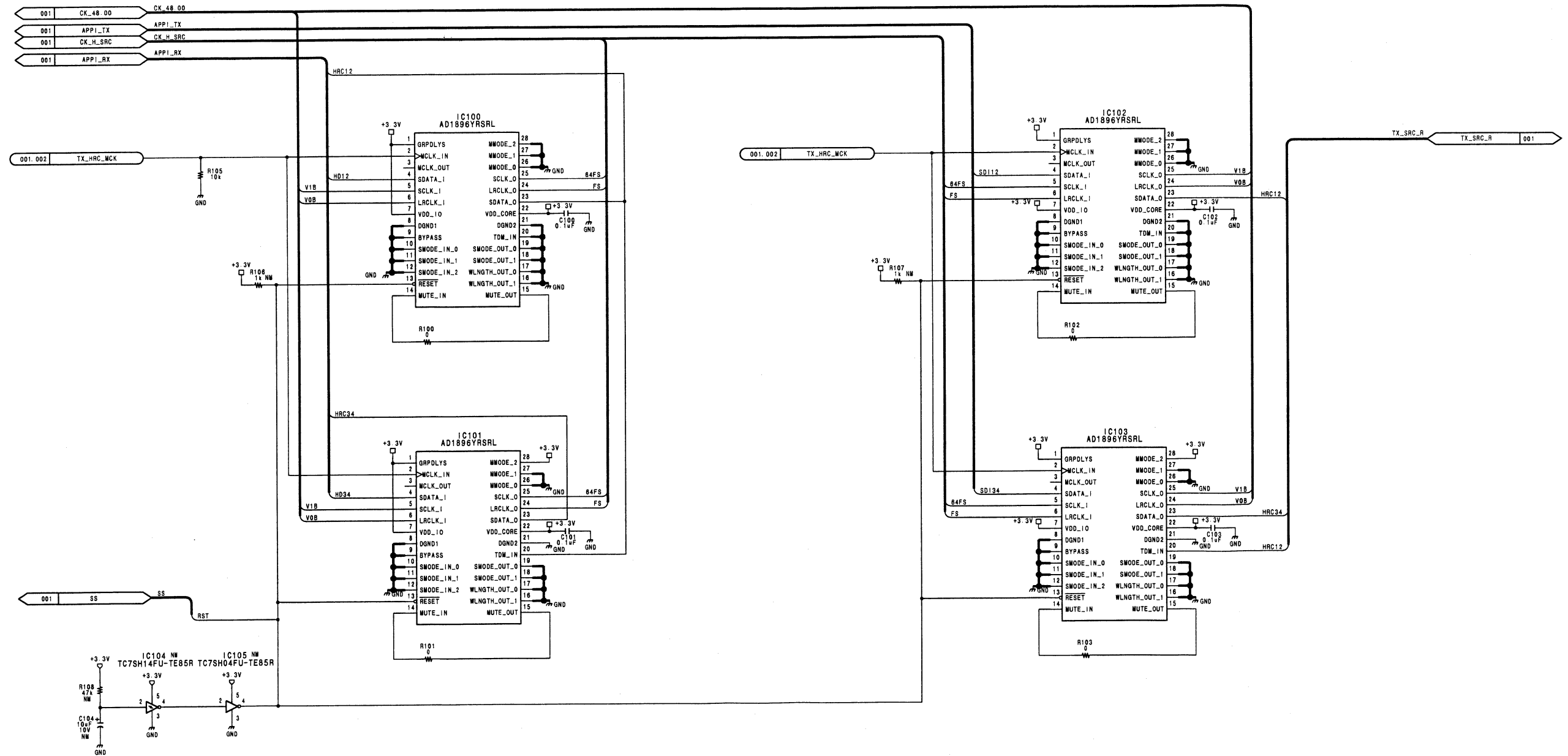
LOT NO. 462- For HDW-S2000/P

HDW-A2100_RC-89_107_1



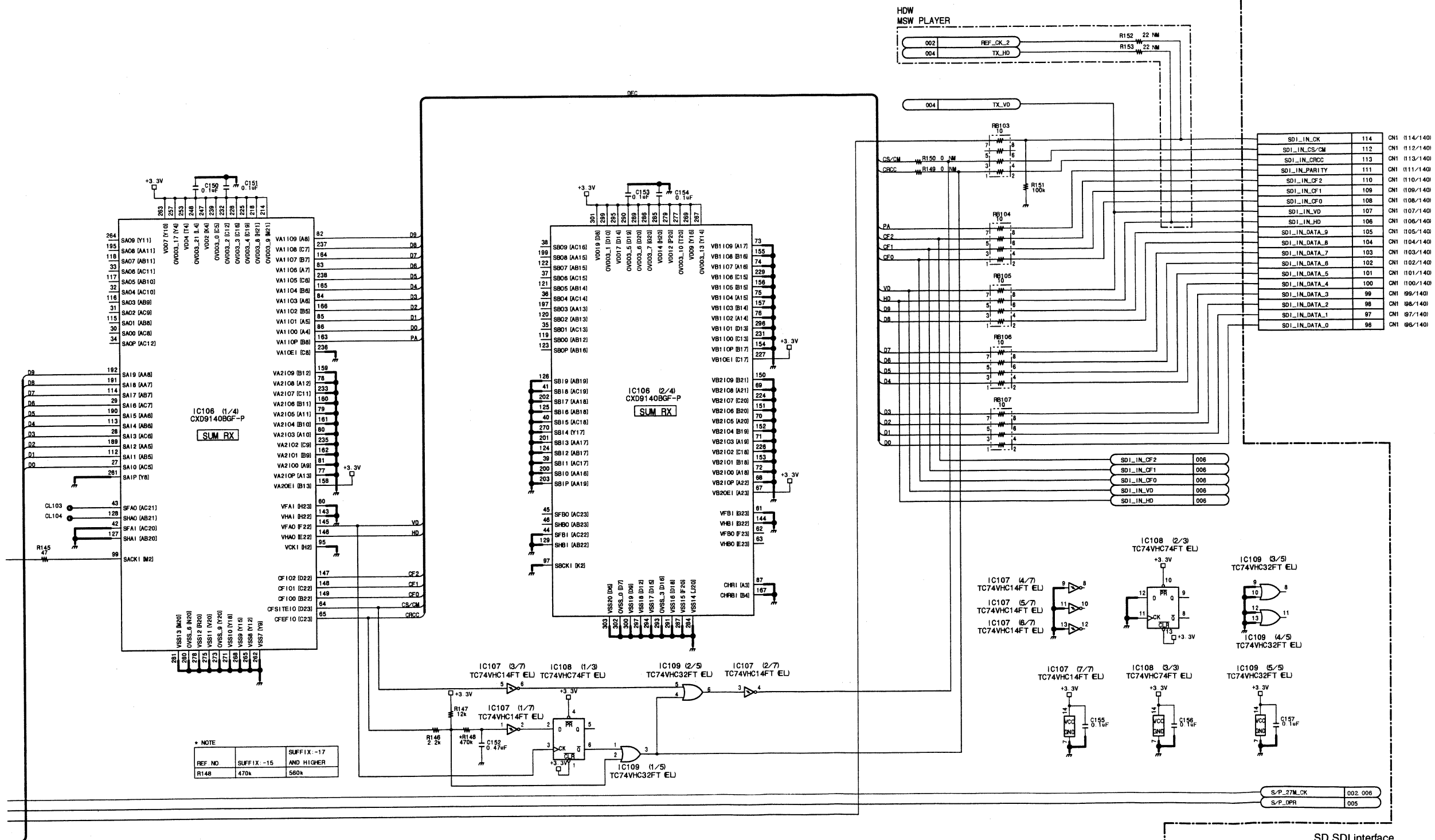
HD SDI RX SRC 1234

HD SDI TX SRC 1234



Audio rate converter
RC-89H (2/2)
 BOARD NO. 1-679-846-13, 14
 RC-89H: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100
 LOT NO. 4C2- For HDW-D2000
 LOT NO. 462- For HDW-S2000/P
 HDW-A2100_RC-89_107_2



DVW
MSW RECORDERSD SDI interface
SDI-52 (1/6)

BOARD NO. 1-677-265-15, 17

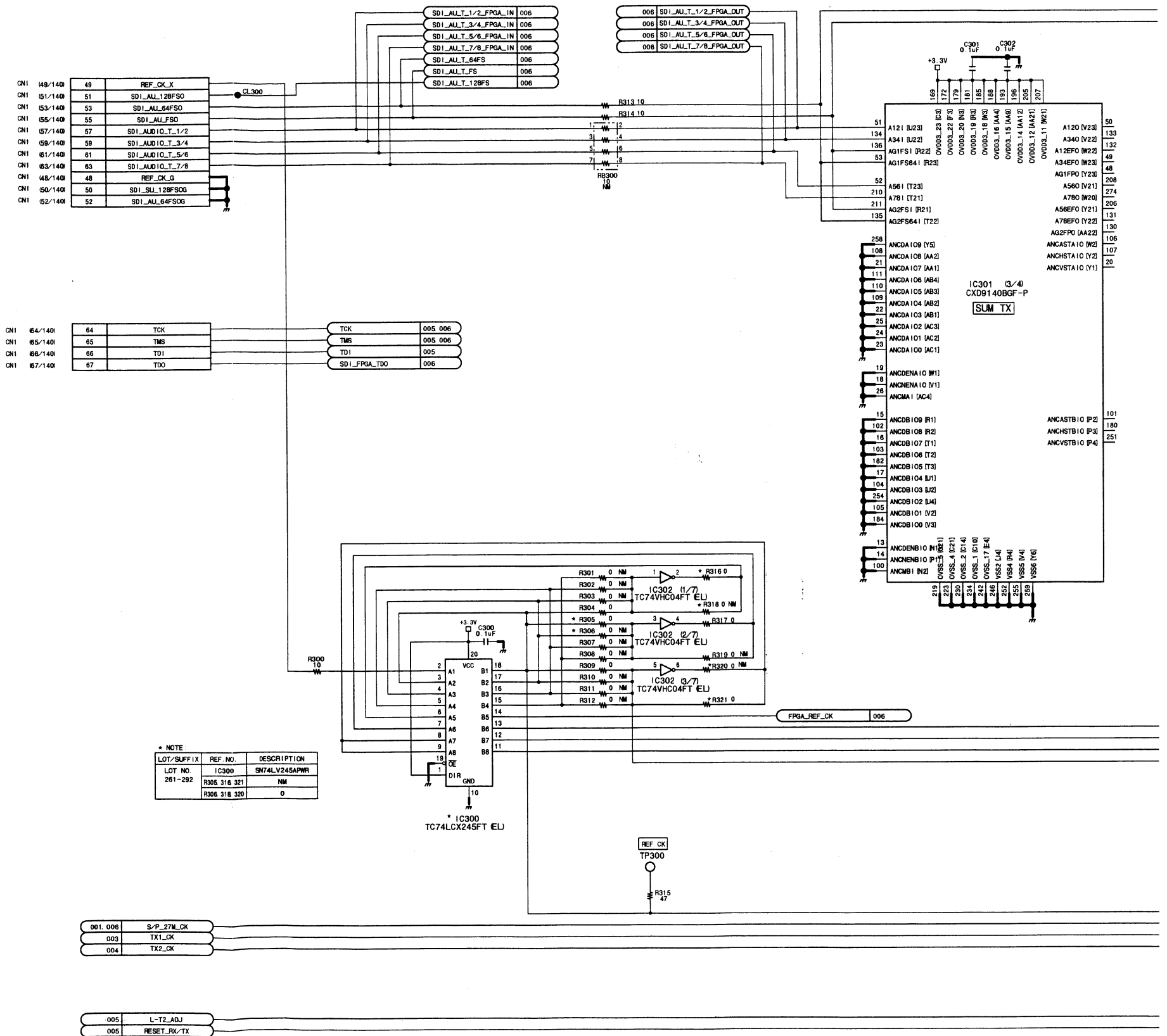
SDI-52: LOT NO. 434- For DVW-2000/P, M2000/P
 LOT NO. 261- For MSW-2000, A2000/P, M2000/P
 LOT NO. 491- For MSW-M2000E/P

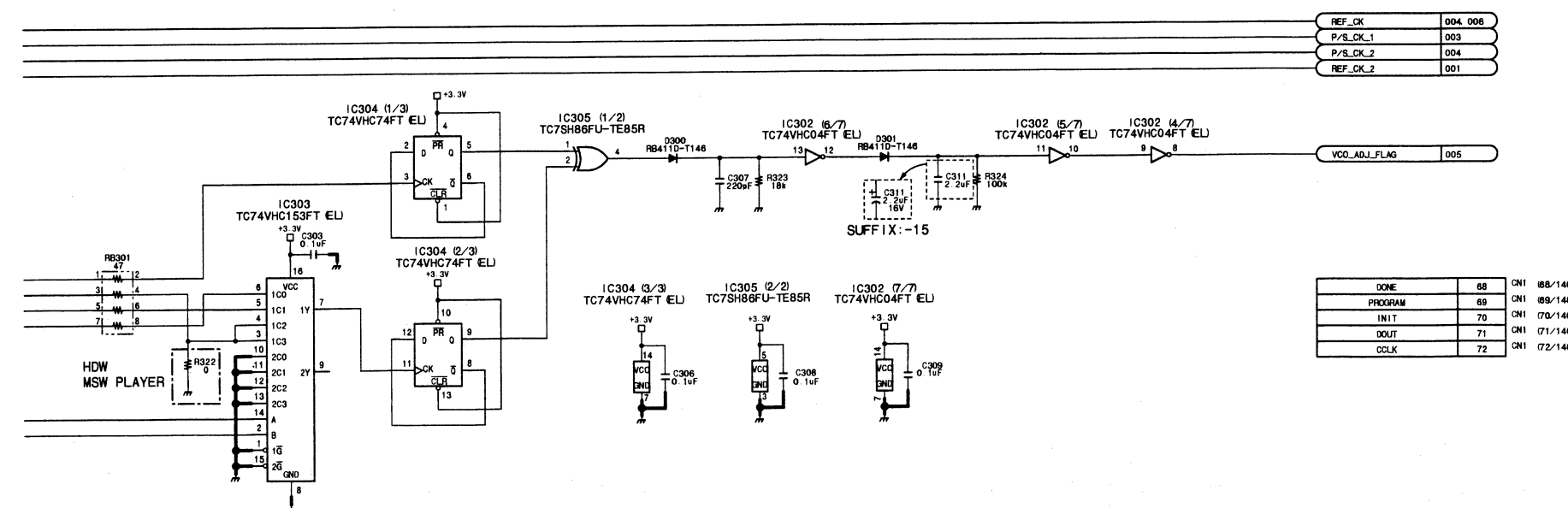
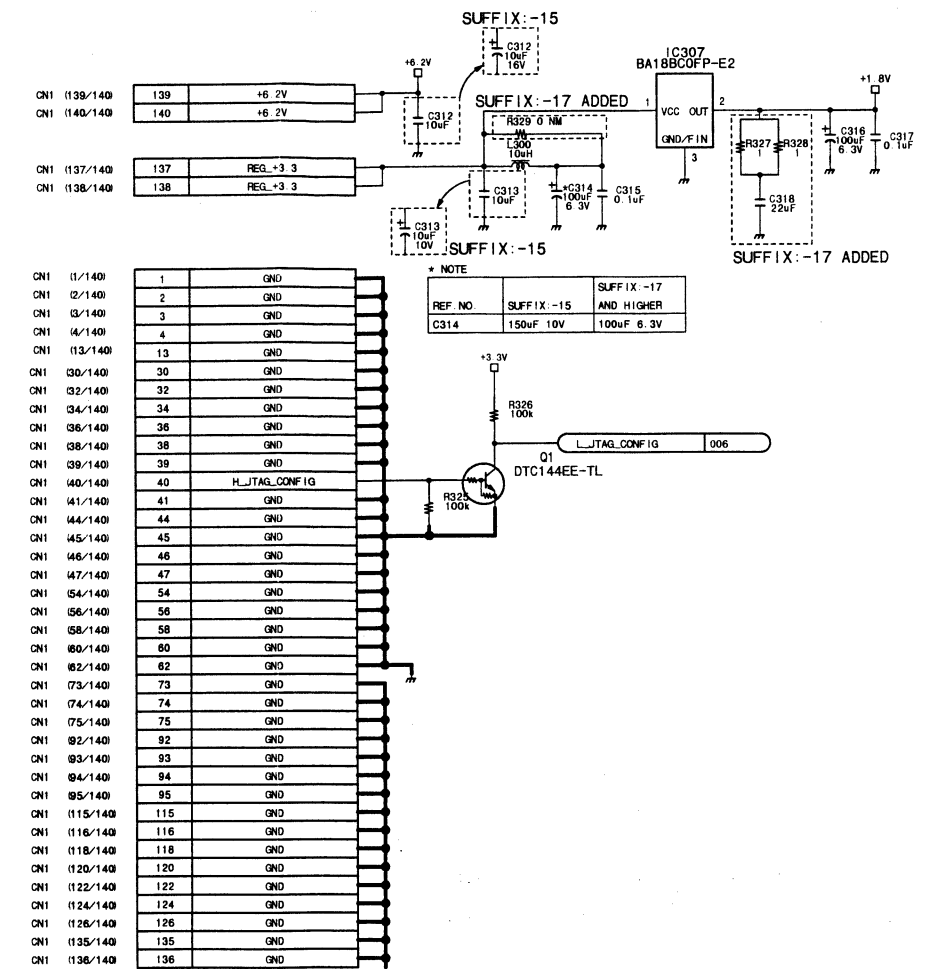
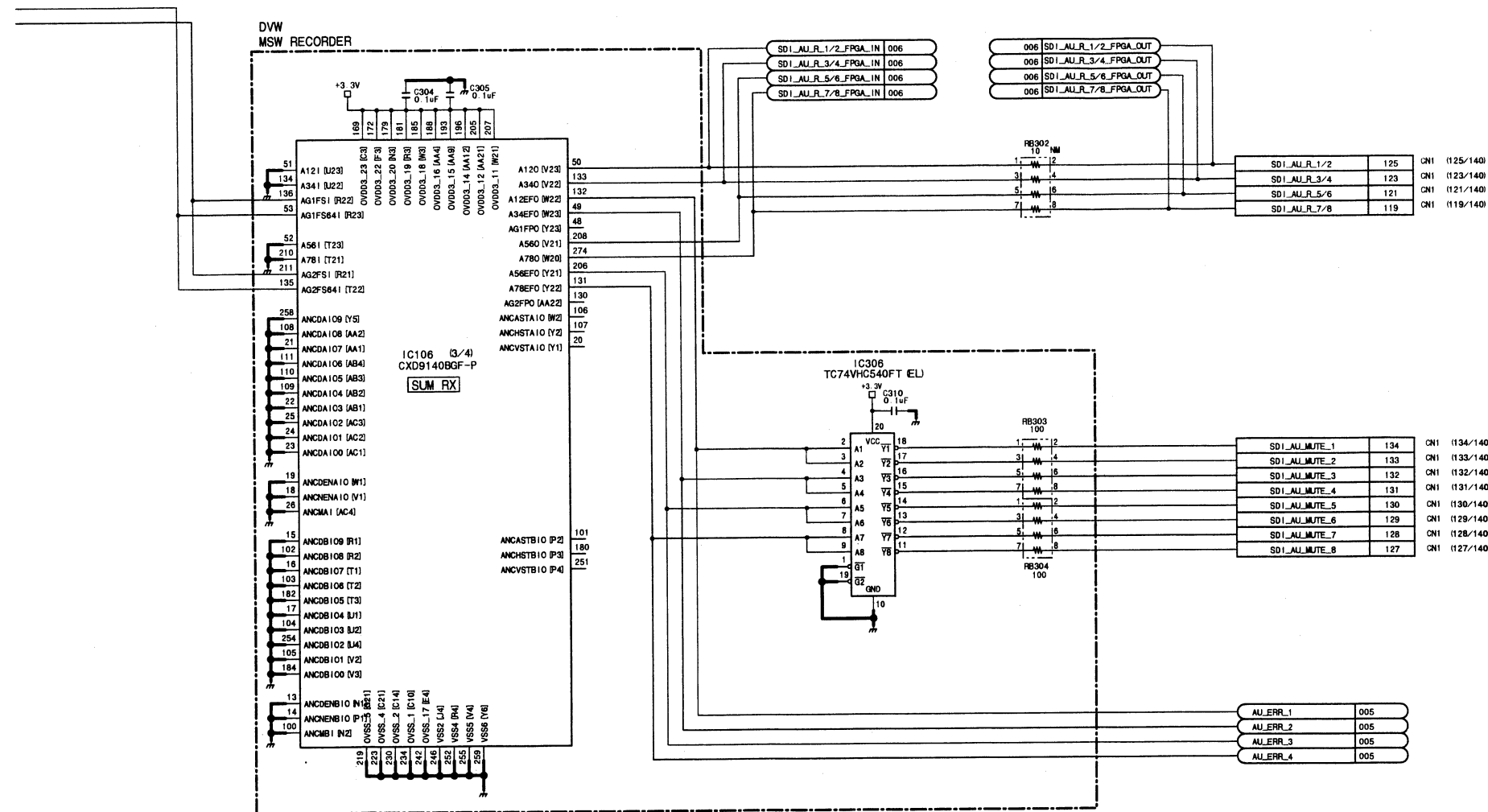
SDI-52A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100
 For MSW-M2100/P

LOT NO. 4C2- For HDW-D2000
 LOT NO. 491- For MSW-M2100E/P

MFV2_SDI-52_151_1

SDI-52 (2/6) SDI-52 (2/6)

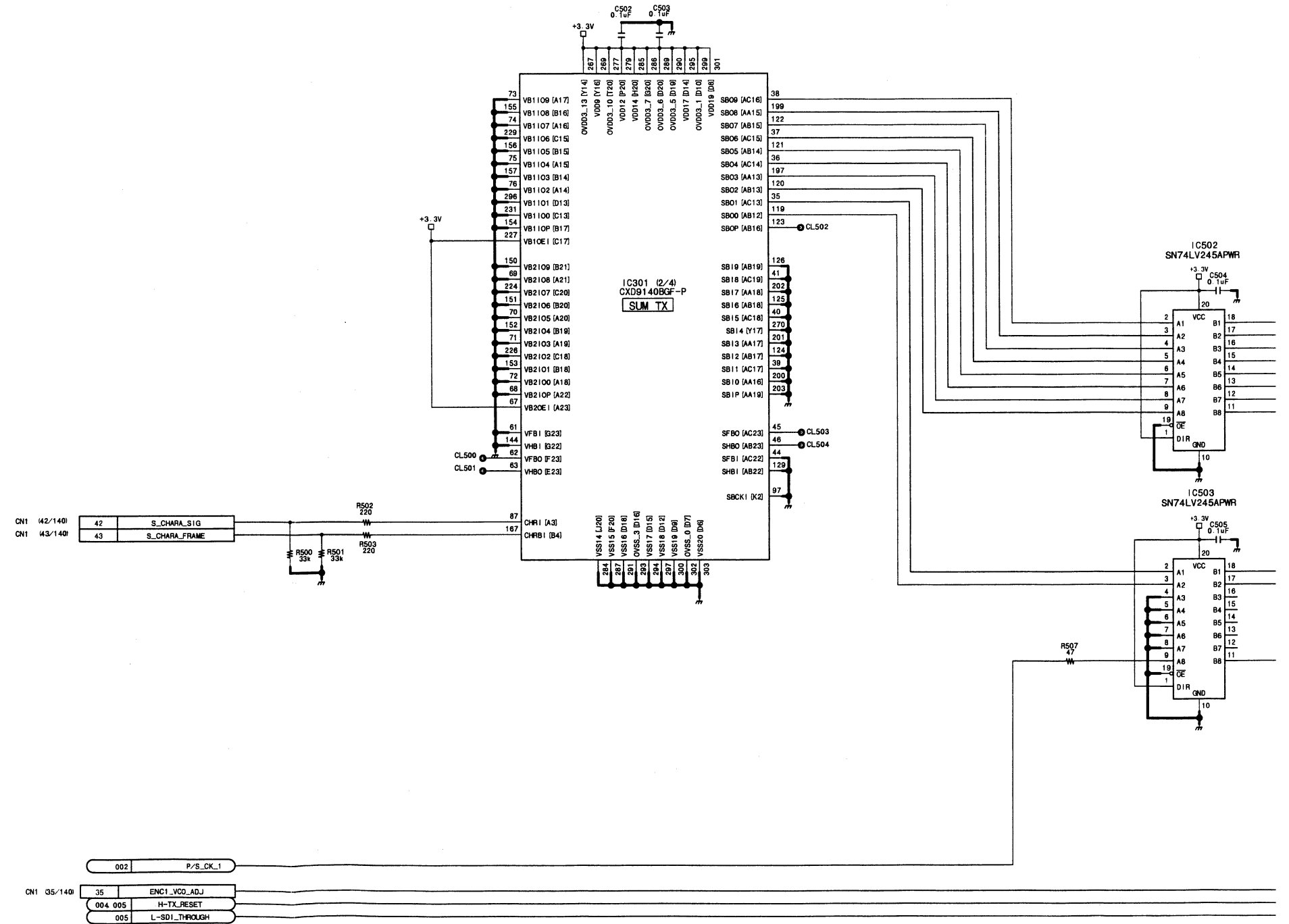


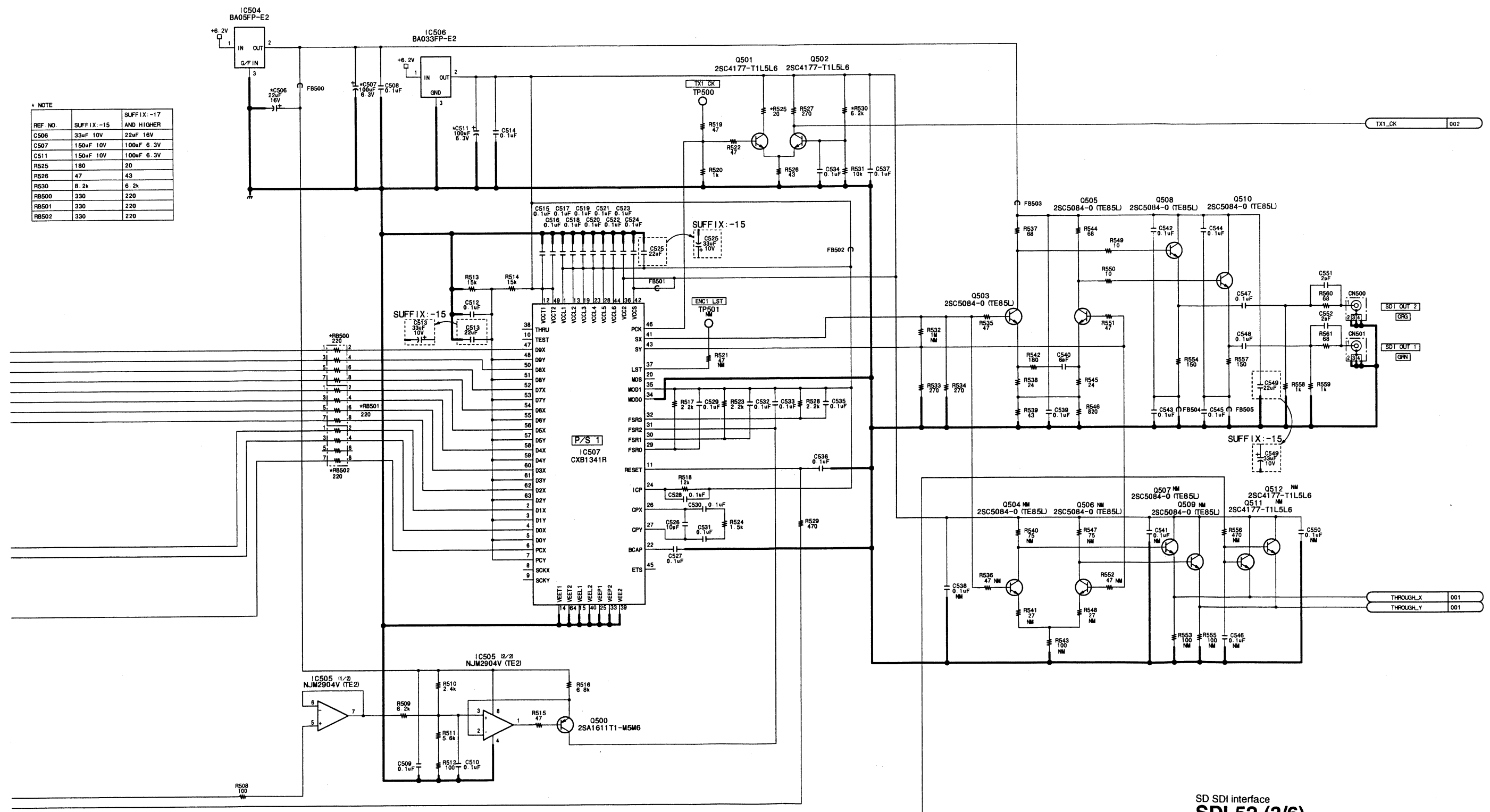
SD SDI interface
SDI-52 (2/6)

BOARD NO. 1-677-265-15, 17

SDI-52: LOT NO. 434- For DVW-2000/P, M2000/P
LOT NO. 261- For MSW-2000, A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
SDI-52A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 491- For MSW-M2100E/P

MFV2_SDI-52_151_2

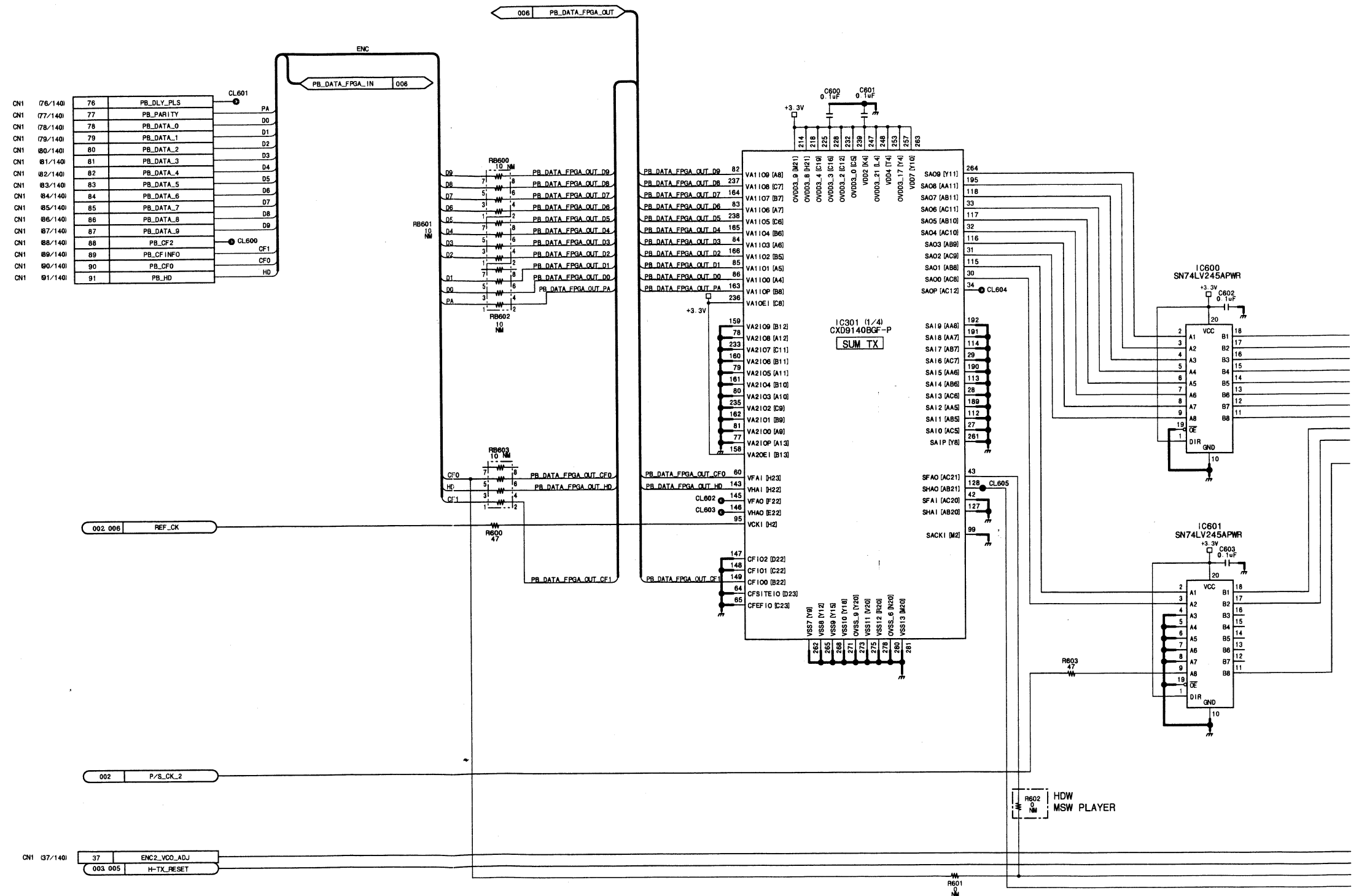


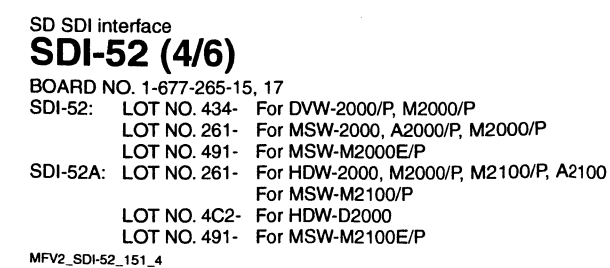
SDI-52 interface
SDI-52 (3/6)

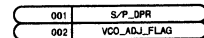
BOARD NO. 1-677-265-15, 17

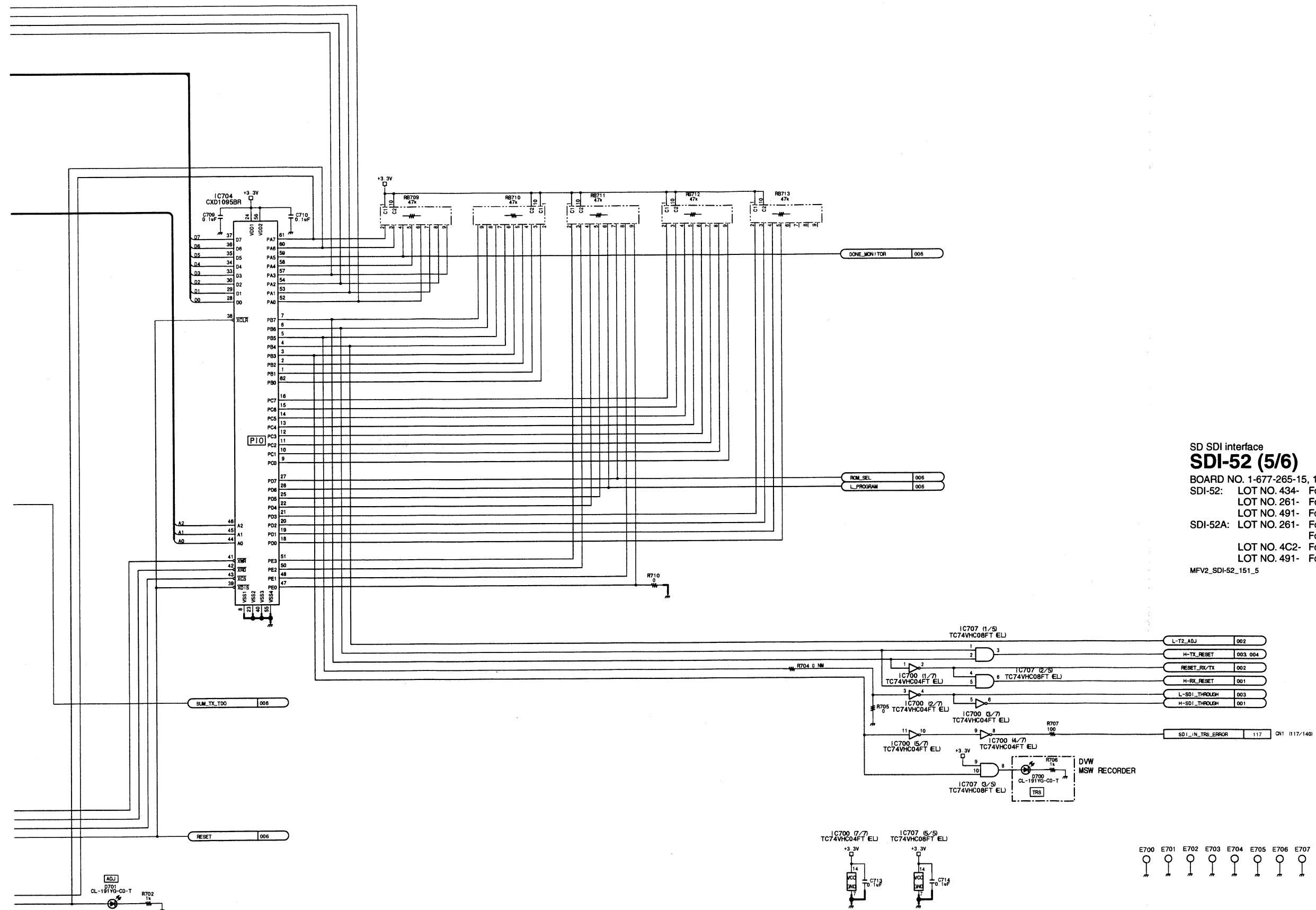
SDI-52: LOT NO. 434- For DW-2000/P, M2000/P
LOT NO. 261- For MSW-2000, A2000/P, M2000/P
LOT NO. 491- For MSW-M2000E/P
SDI-52A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100
LOT NO. 4C2- For HDW-D2000
LOT NO. 491- For MSW-M2100E/P

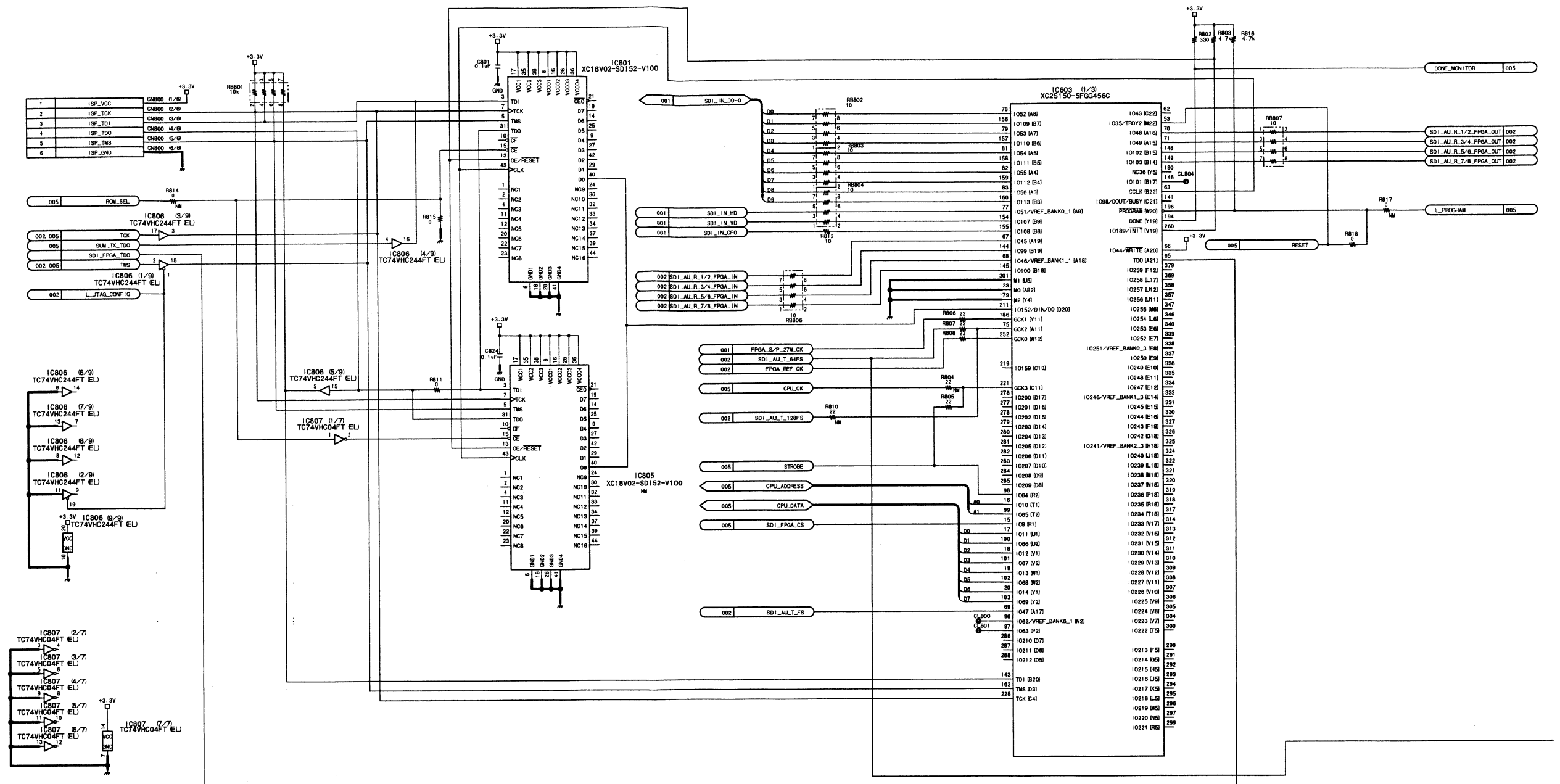
MFV2_SDI-52_151_3

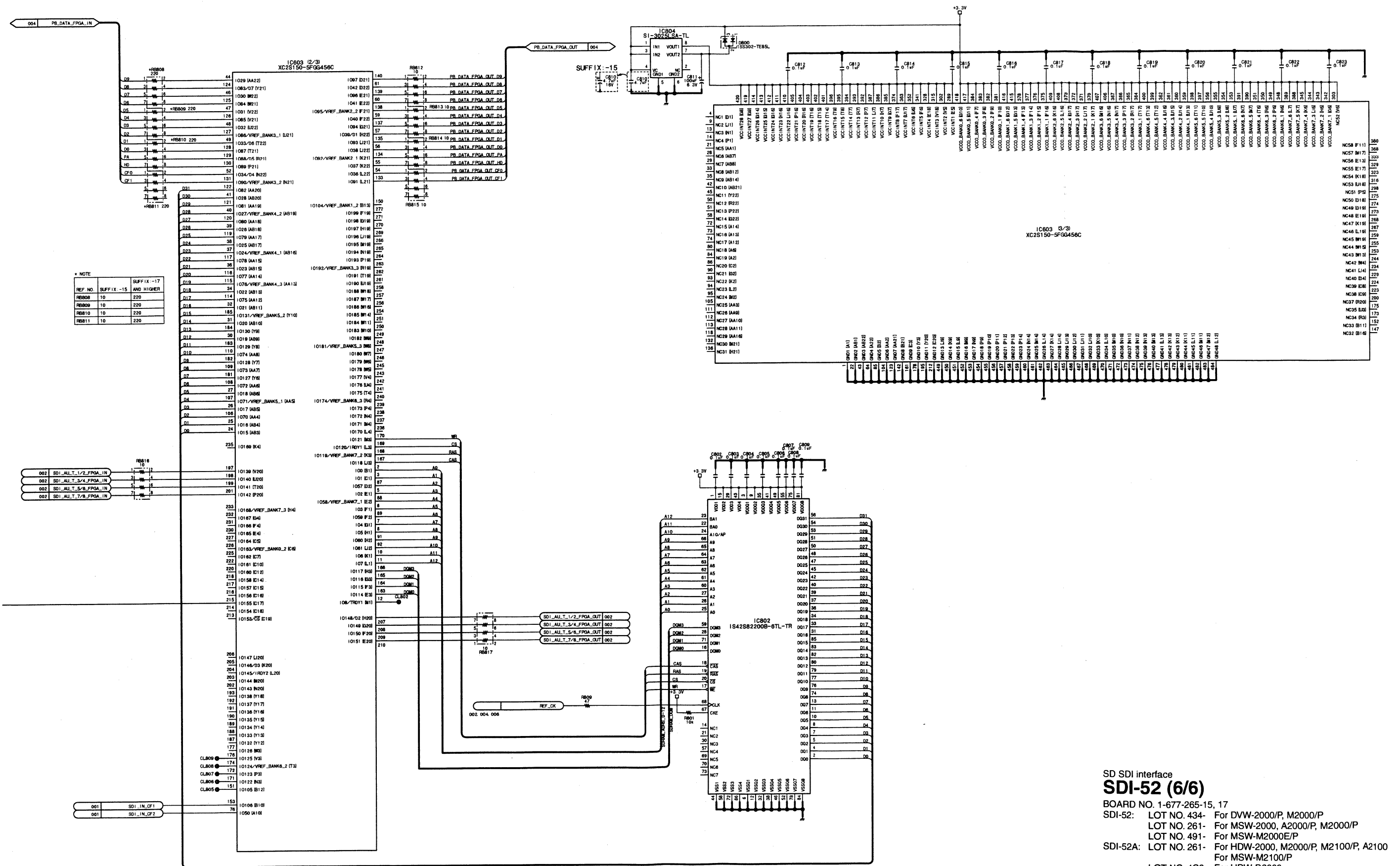


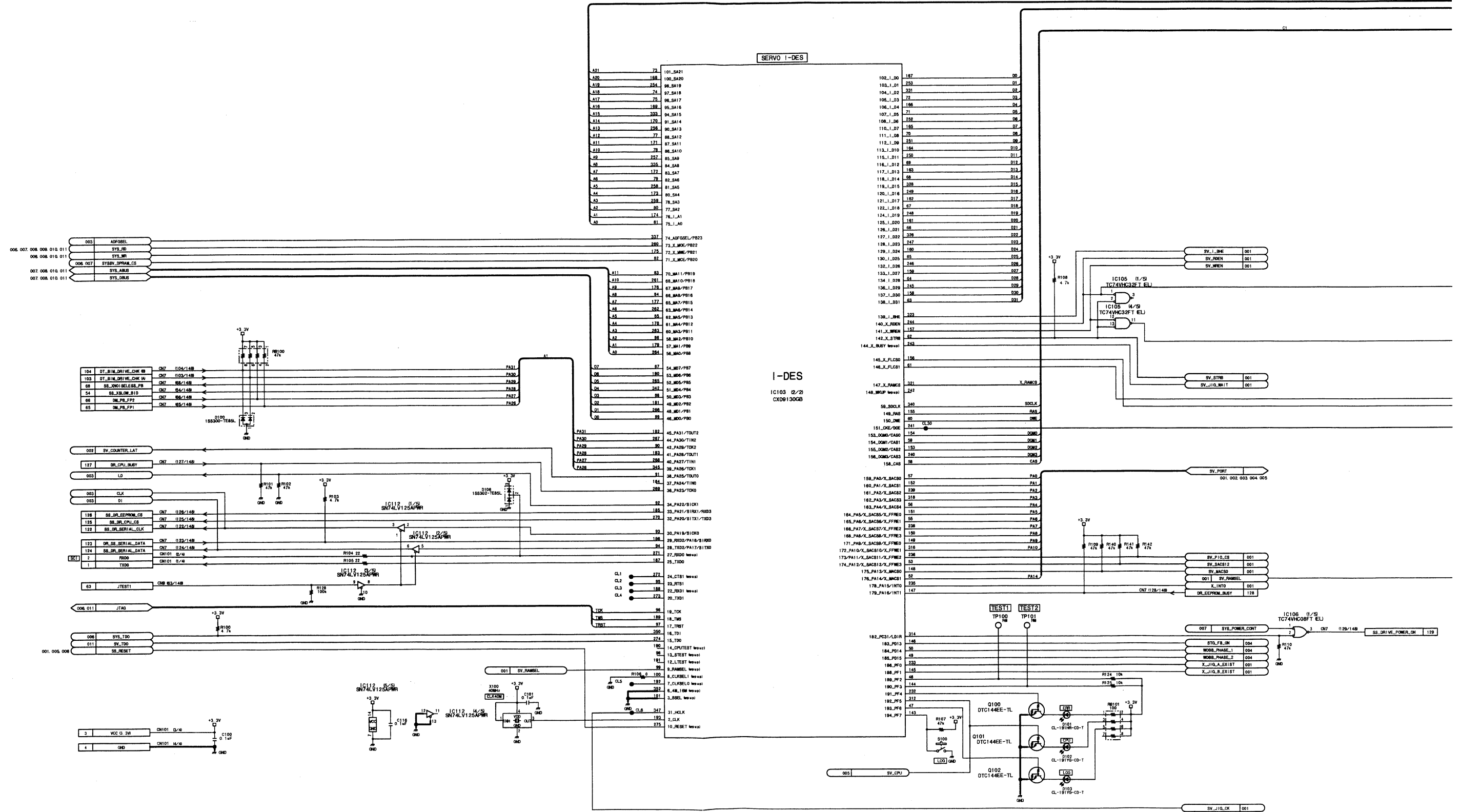


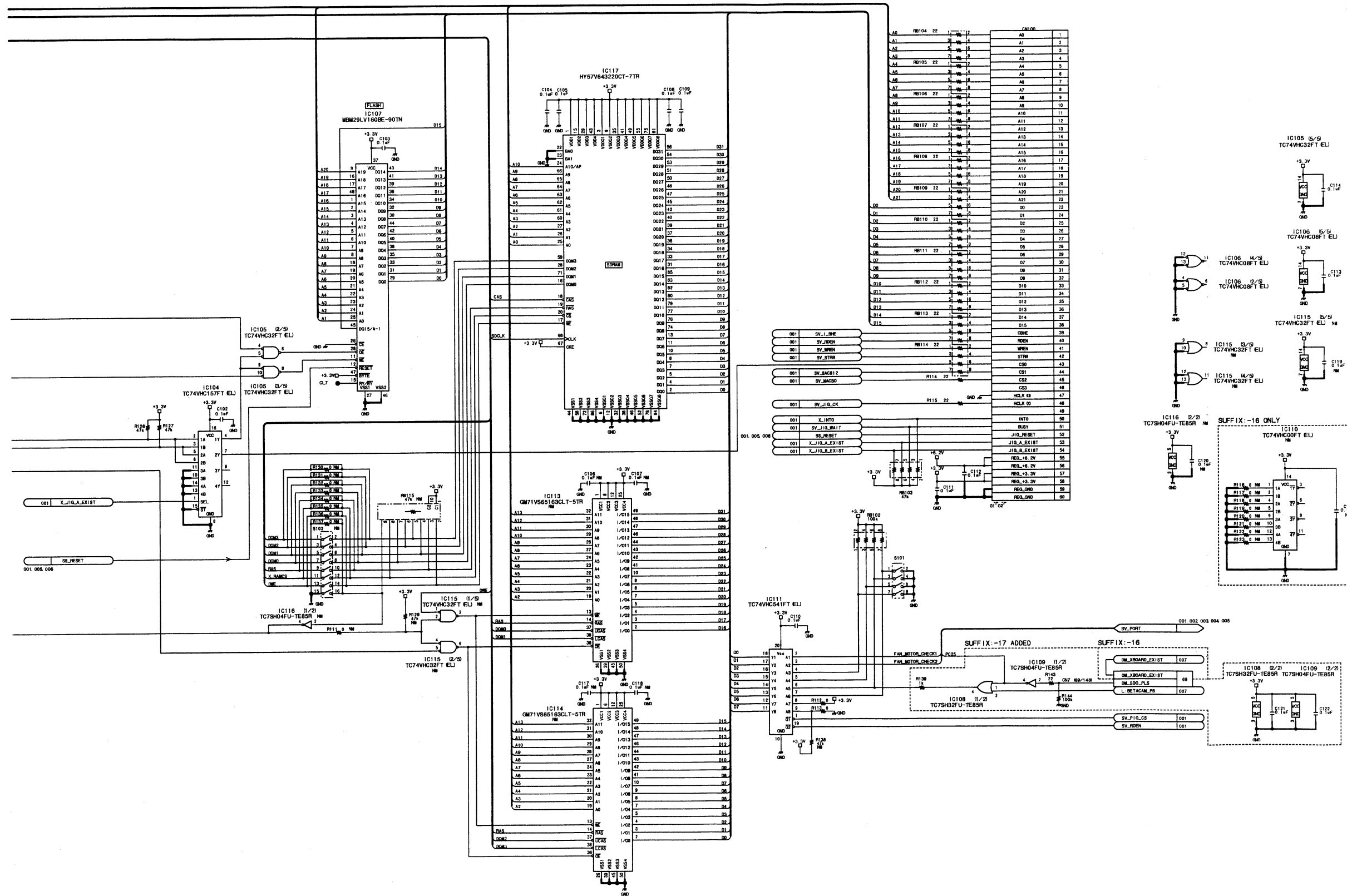


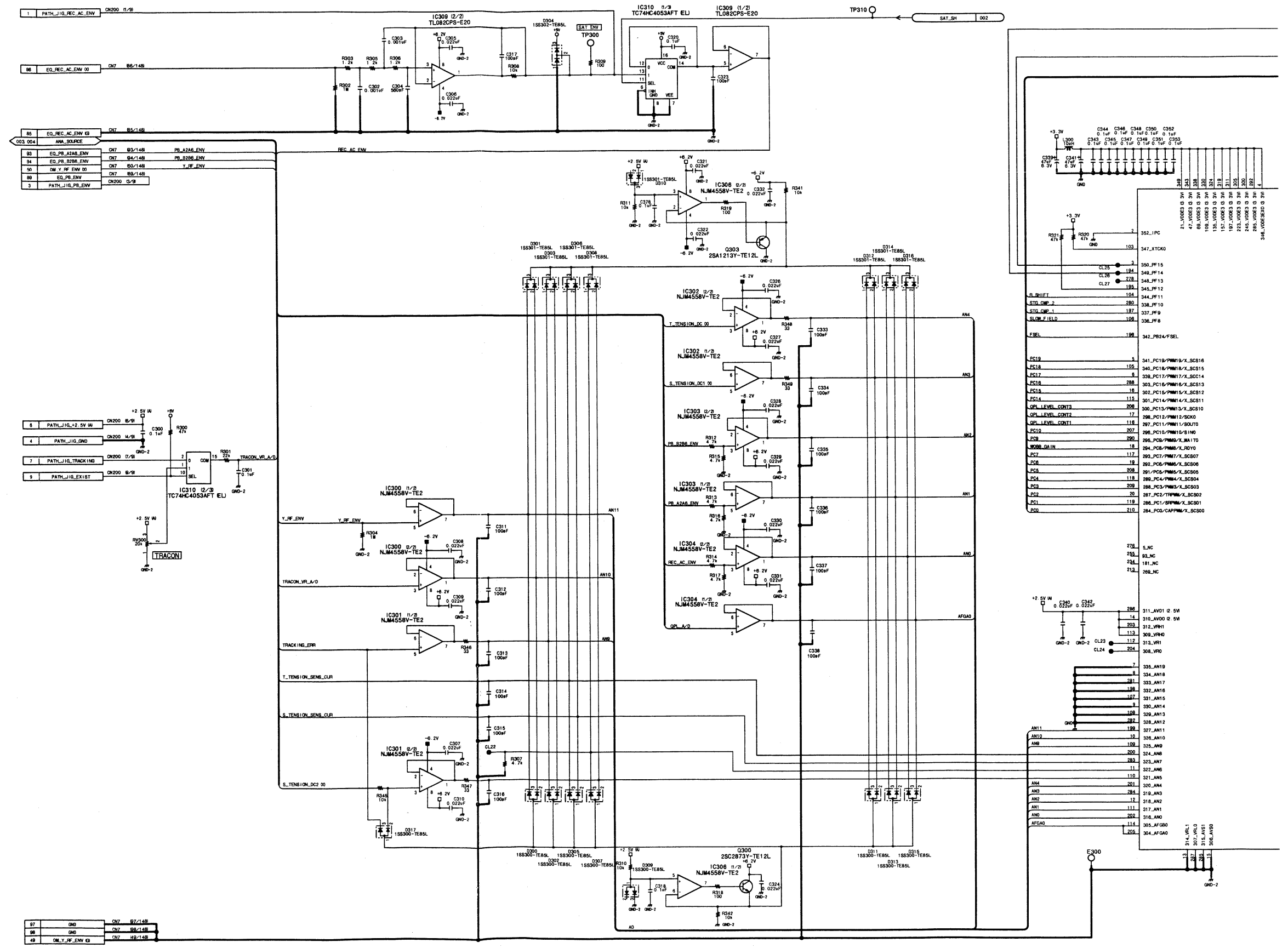


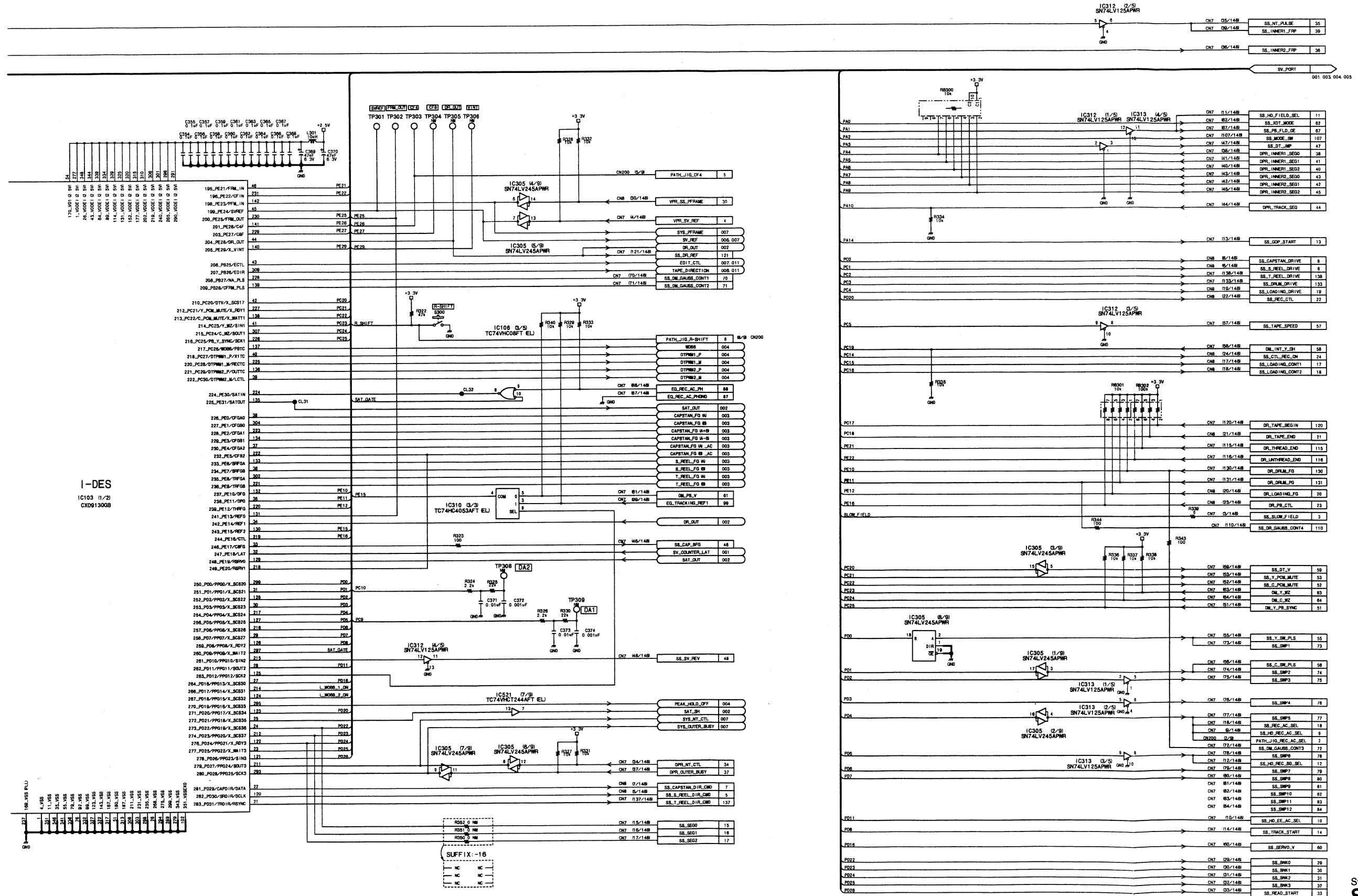




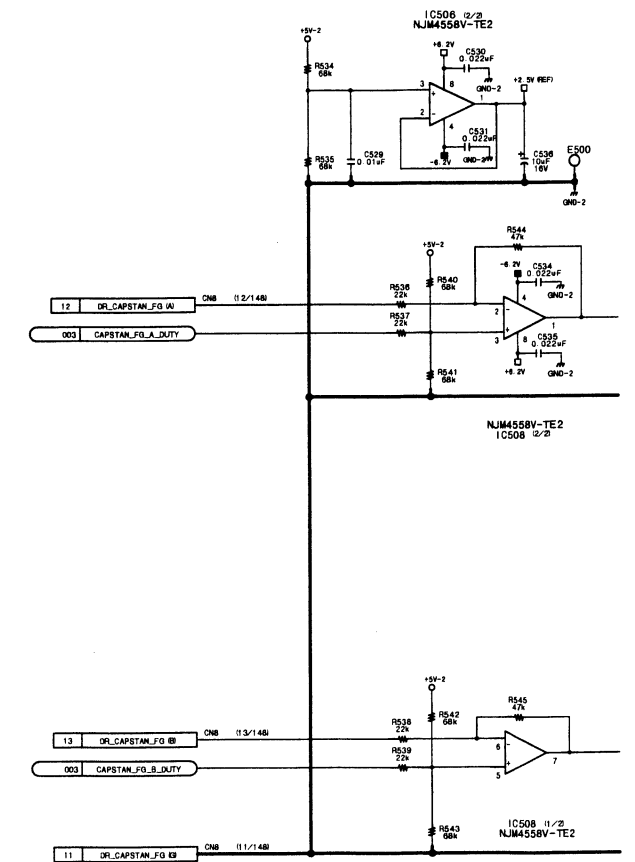


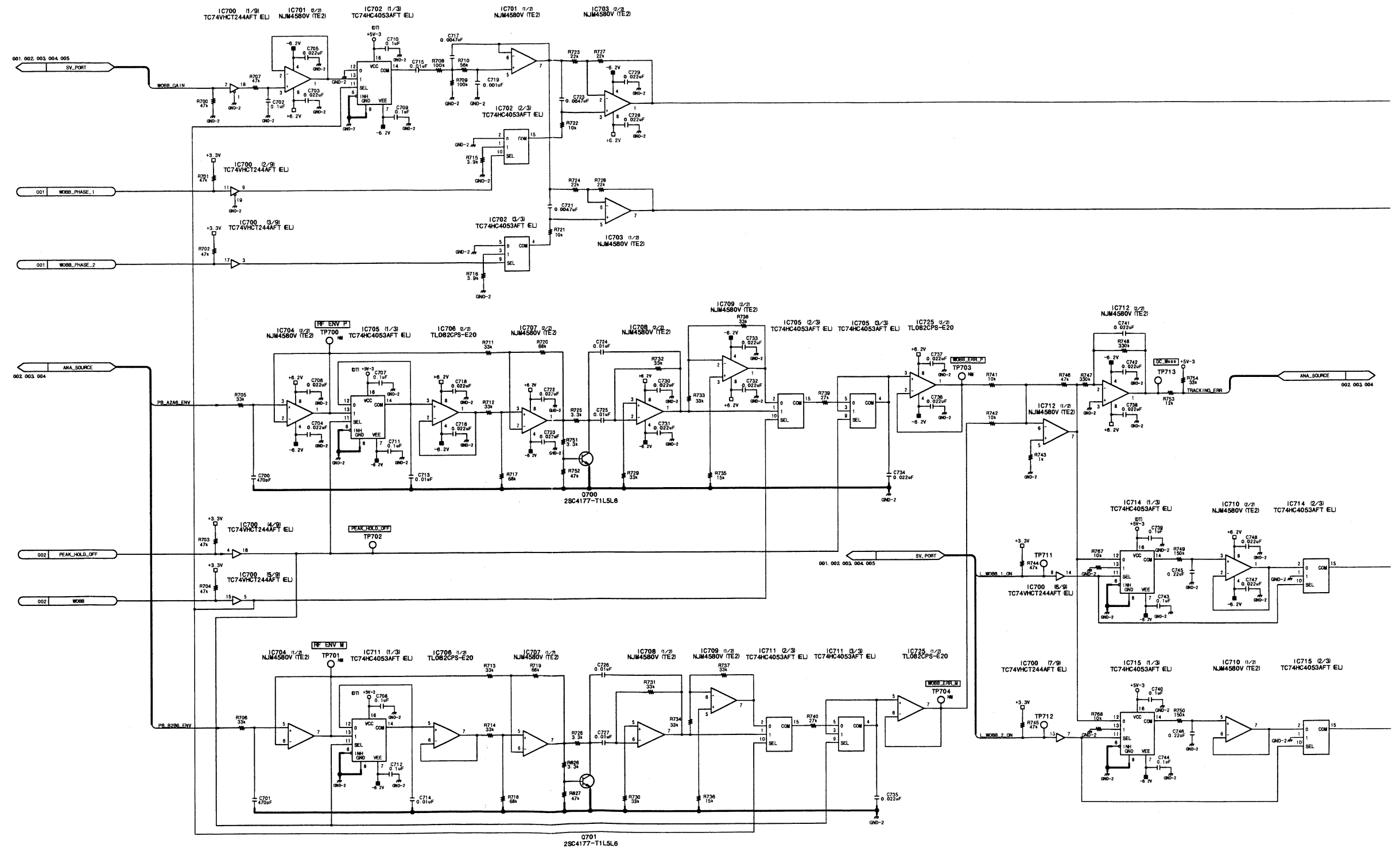




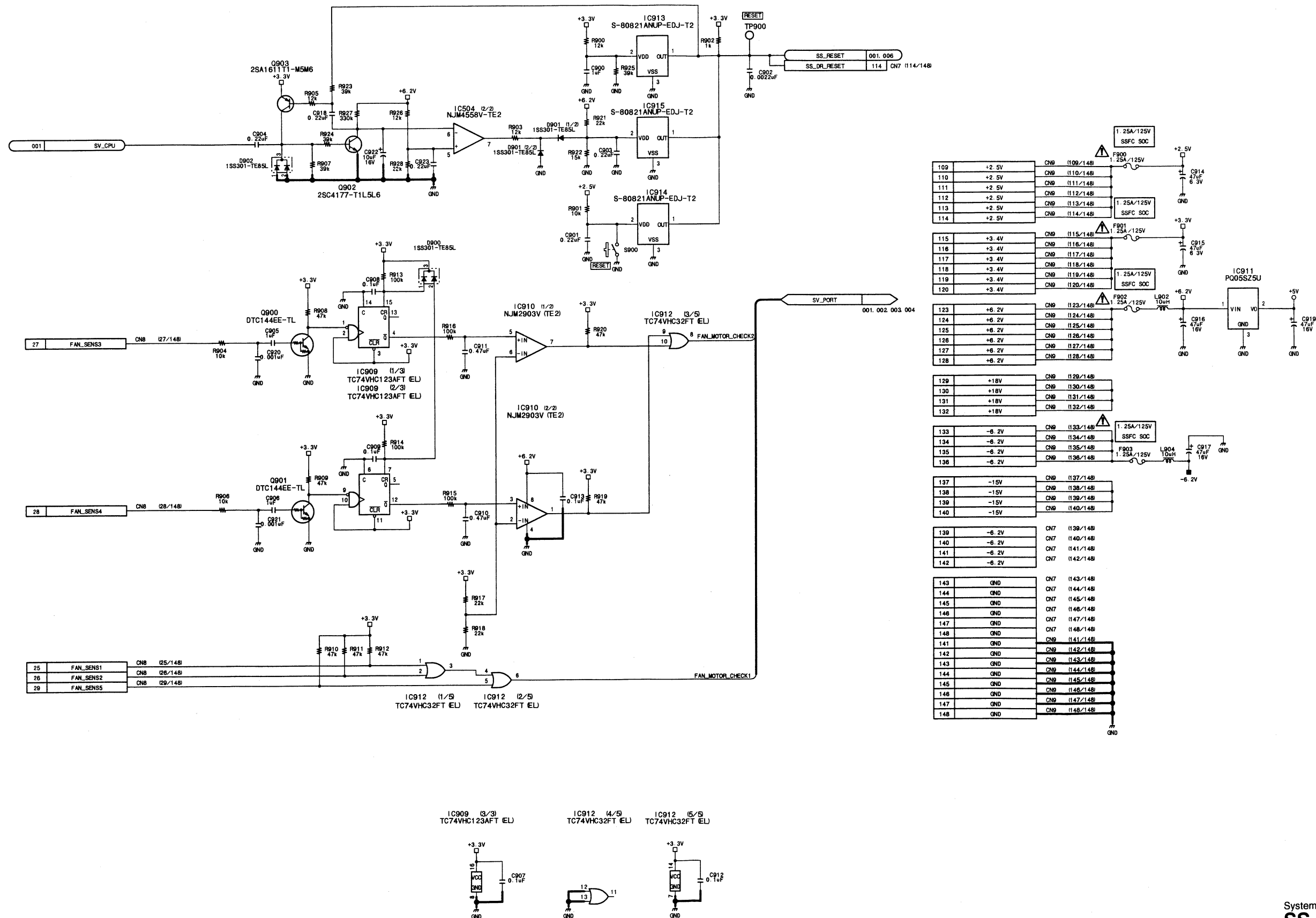


System control, Servo control
SS-89 (2/11)
 BOARD NO. 1-677-285-16, 17
 LOT NO. 261-
 MSW-A2000_SS-89_114_2

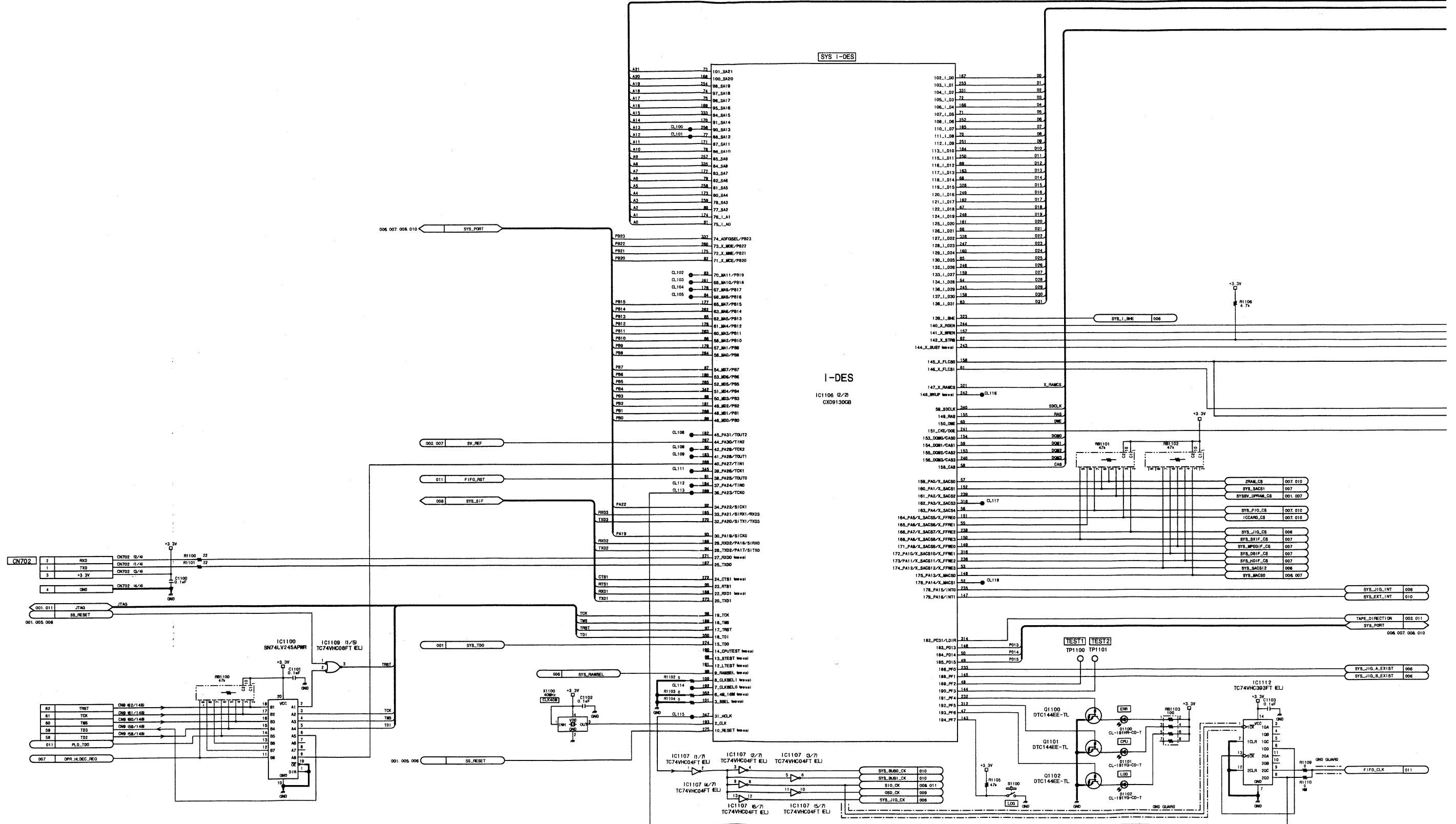


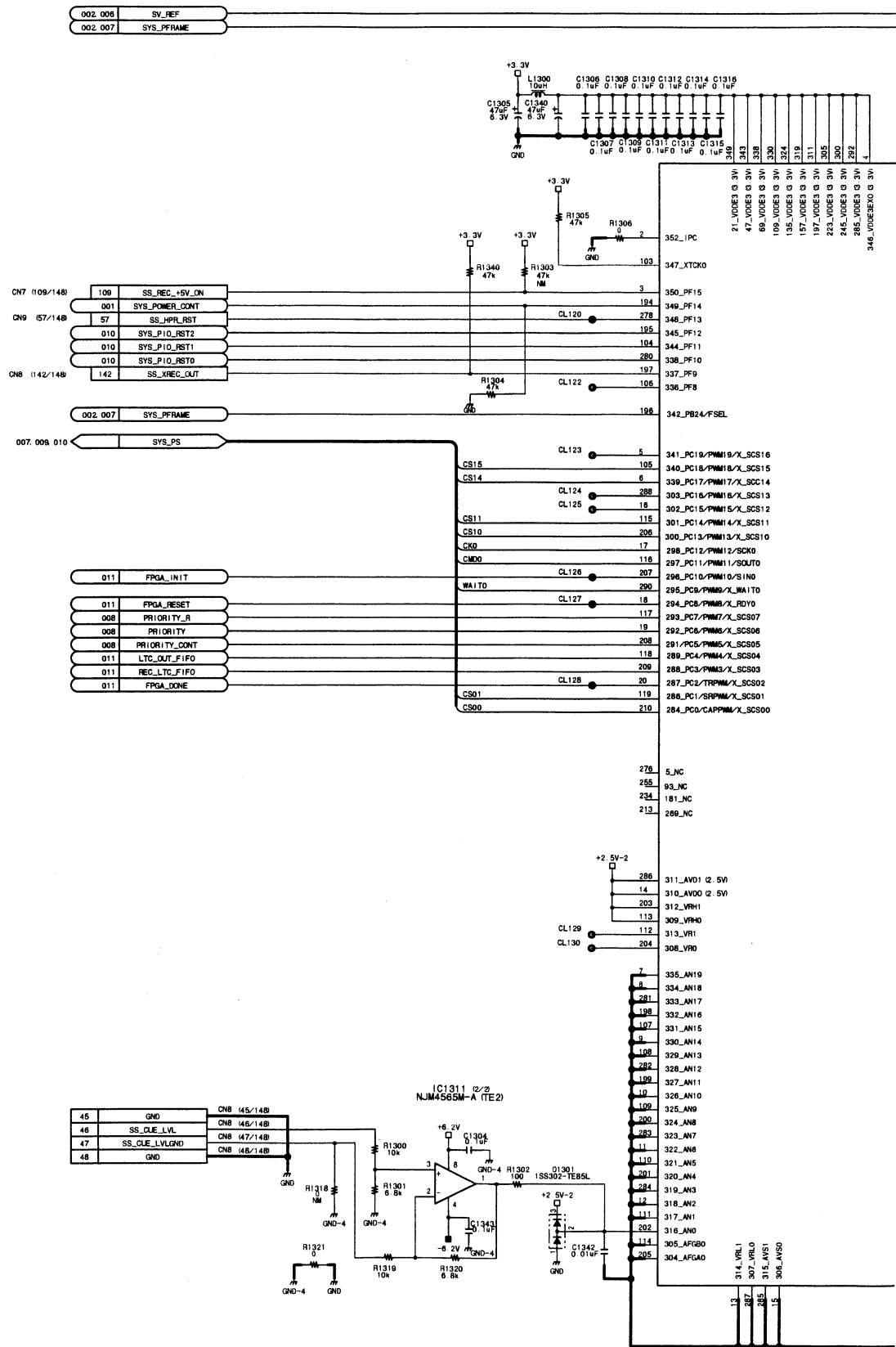
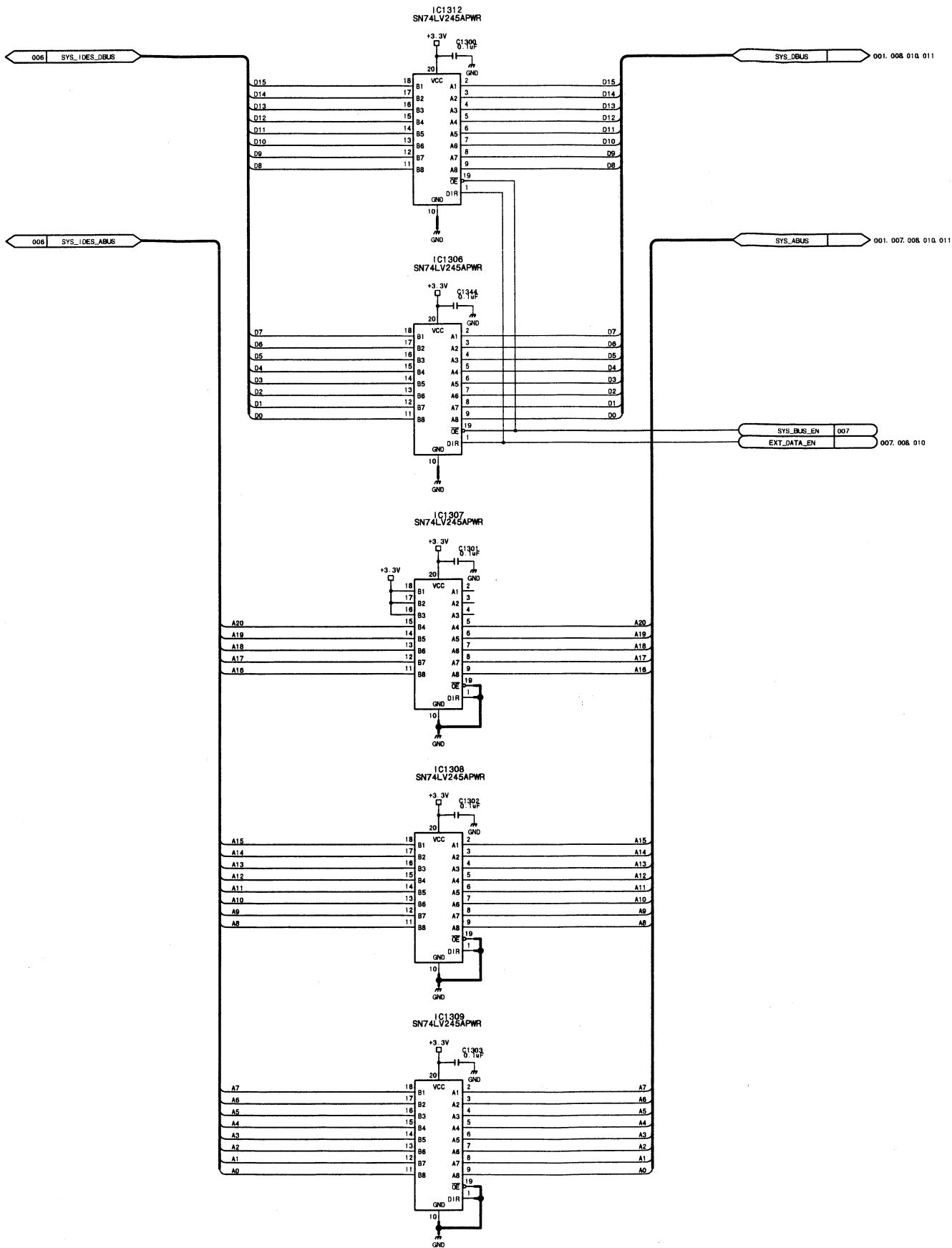


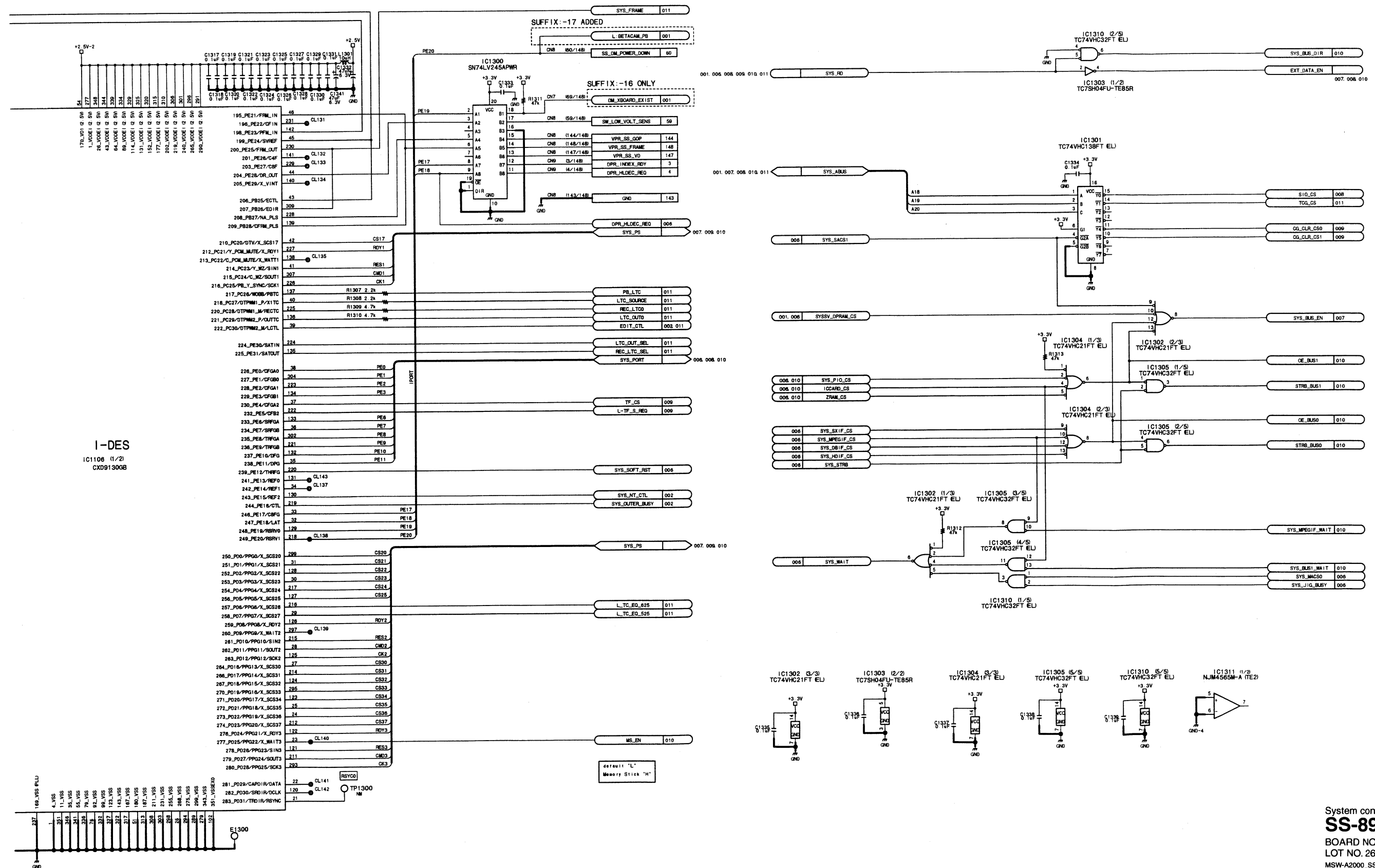


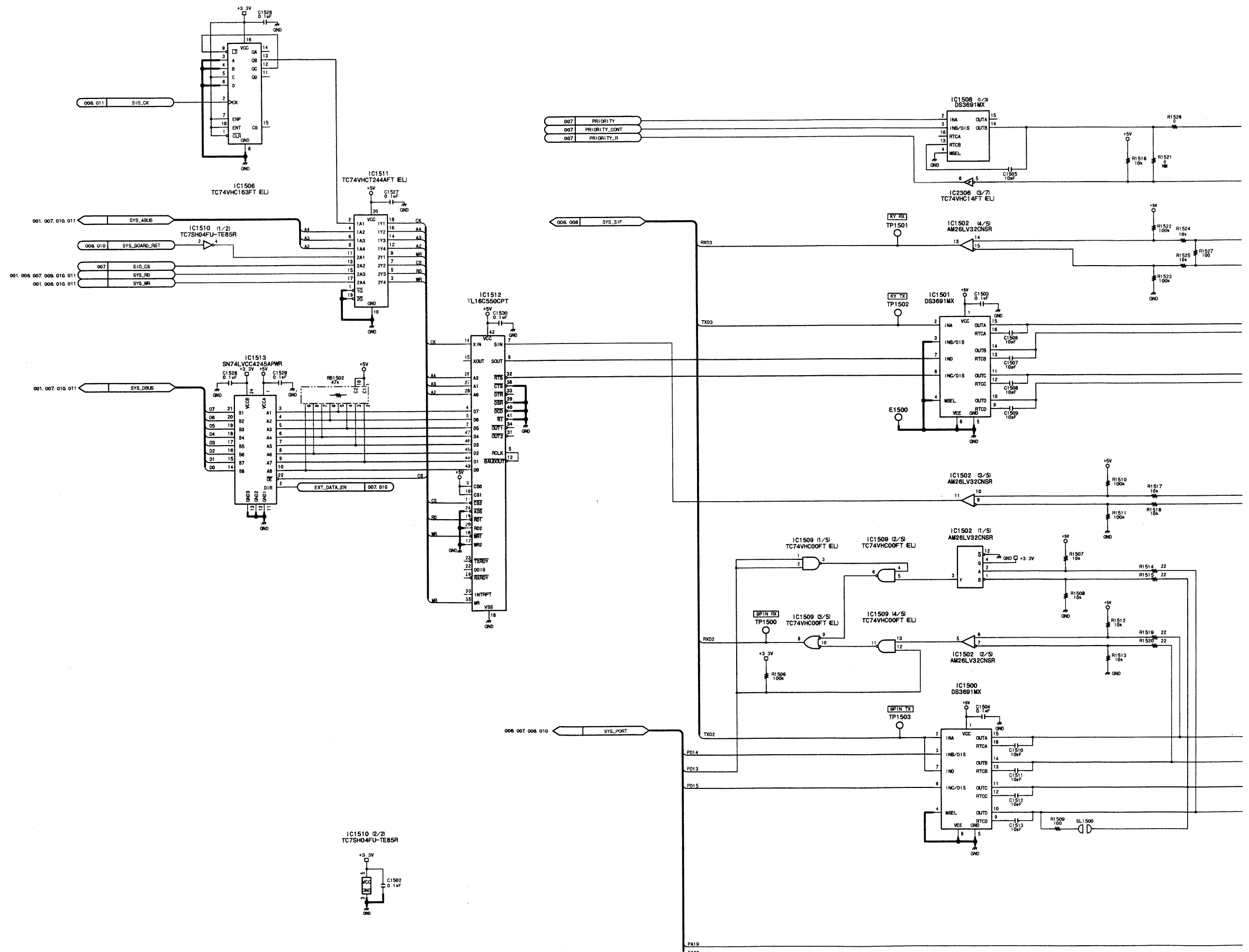


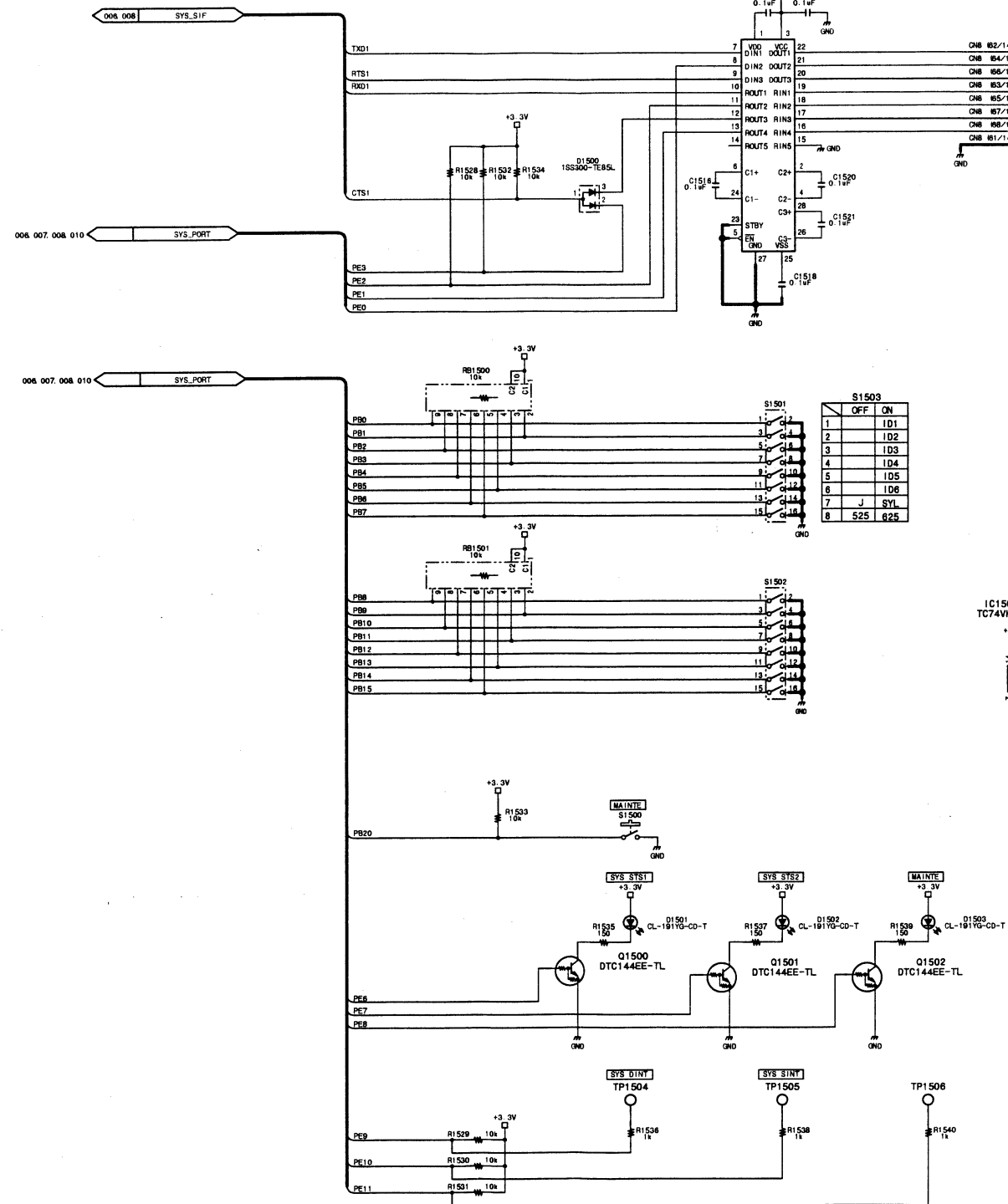
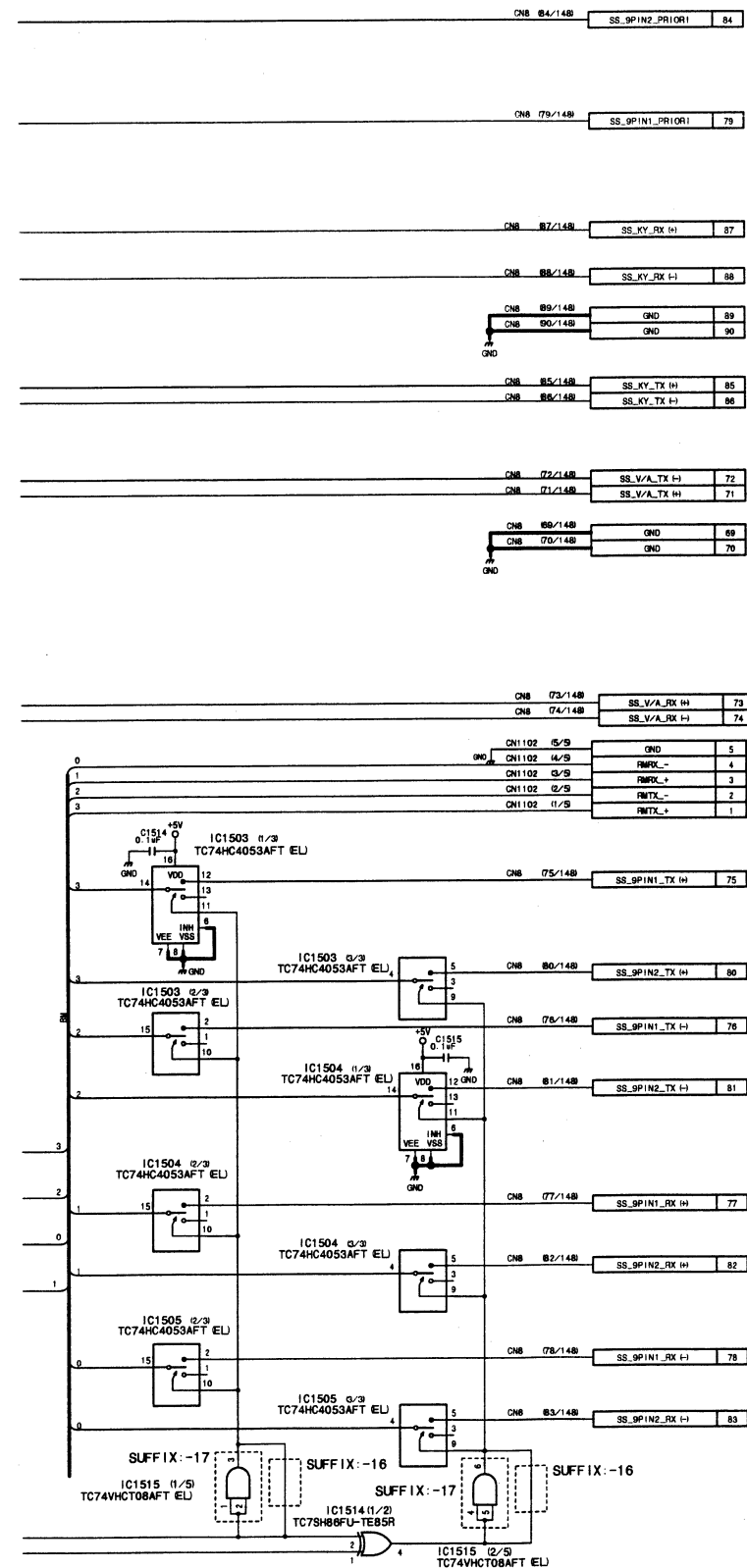
System control, Servo control
SS-89 (5/11)
 BOARD NO. 1-677-285-16, 17
 LOT NO. 261-
 MSW-A2000_SS-89_114_5



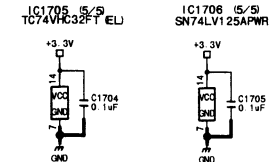
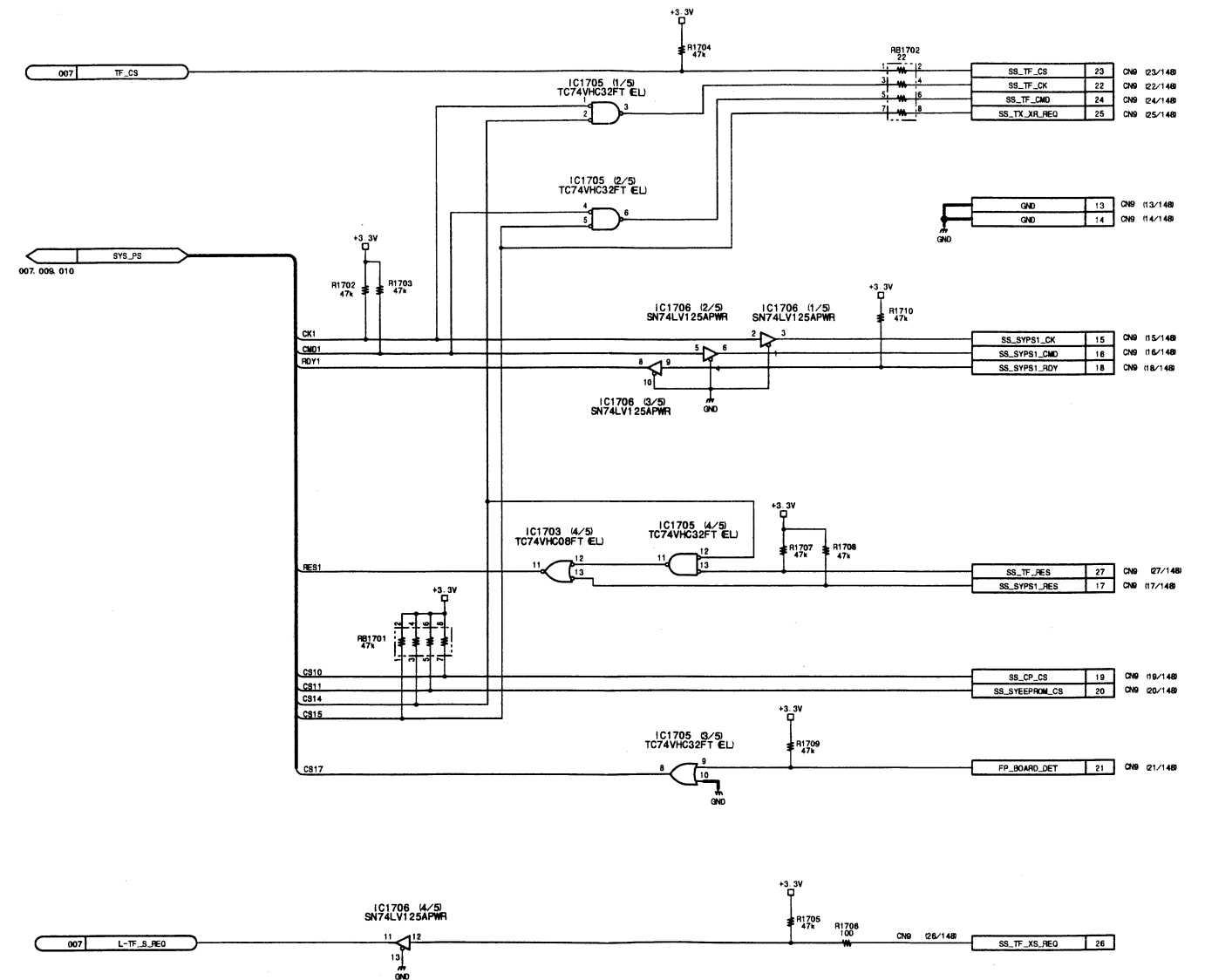
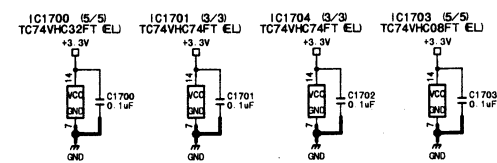


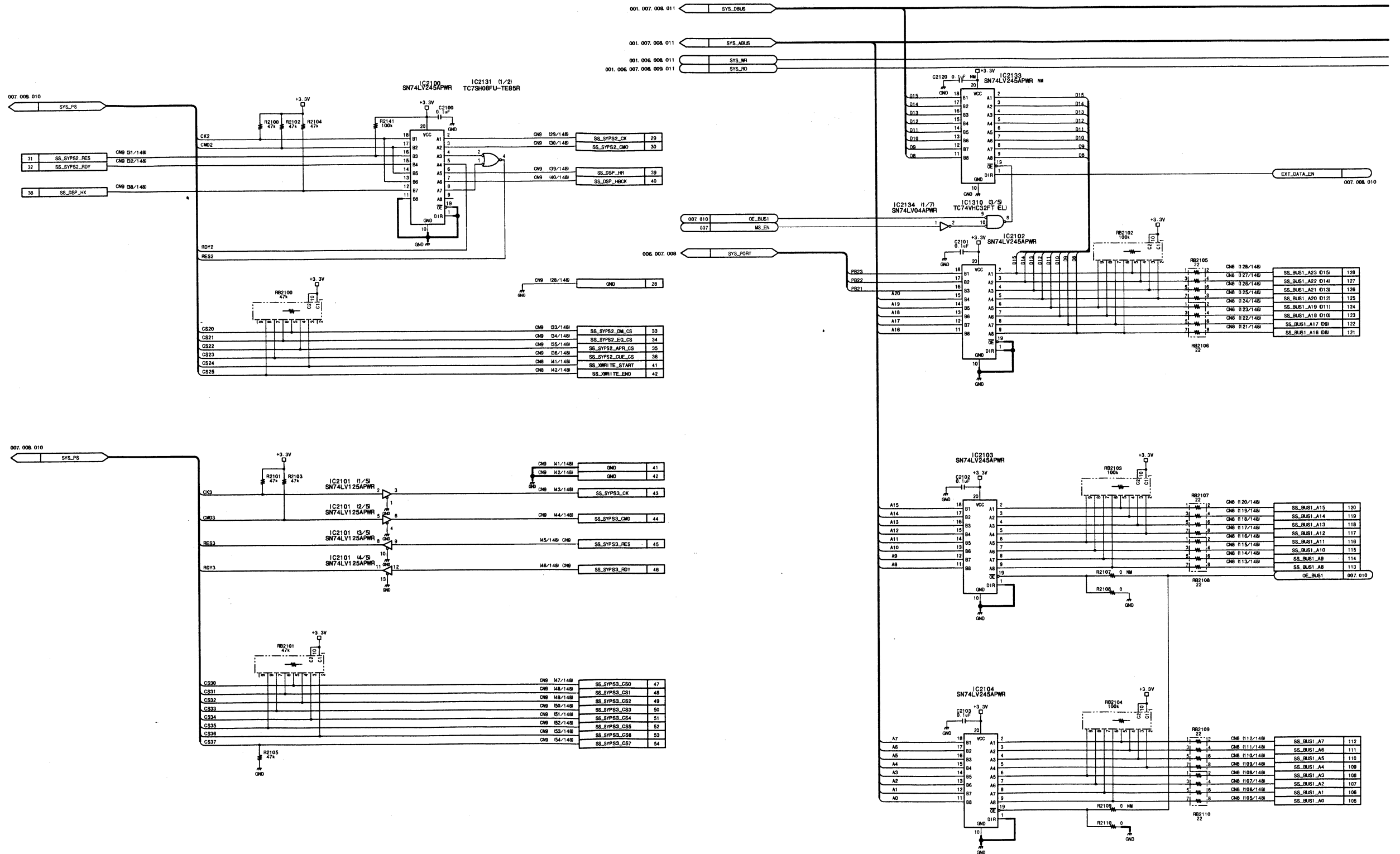


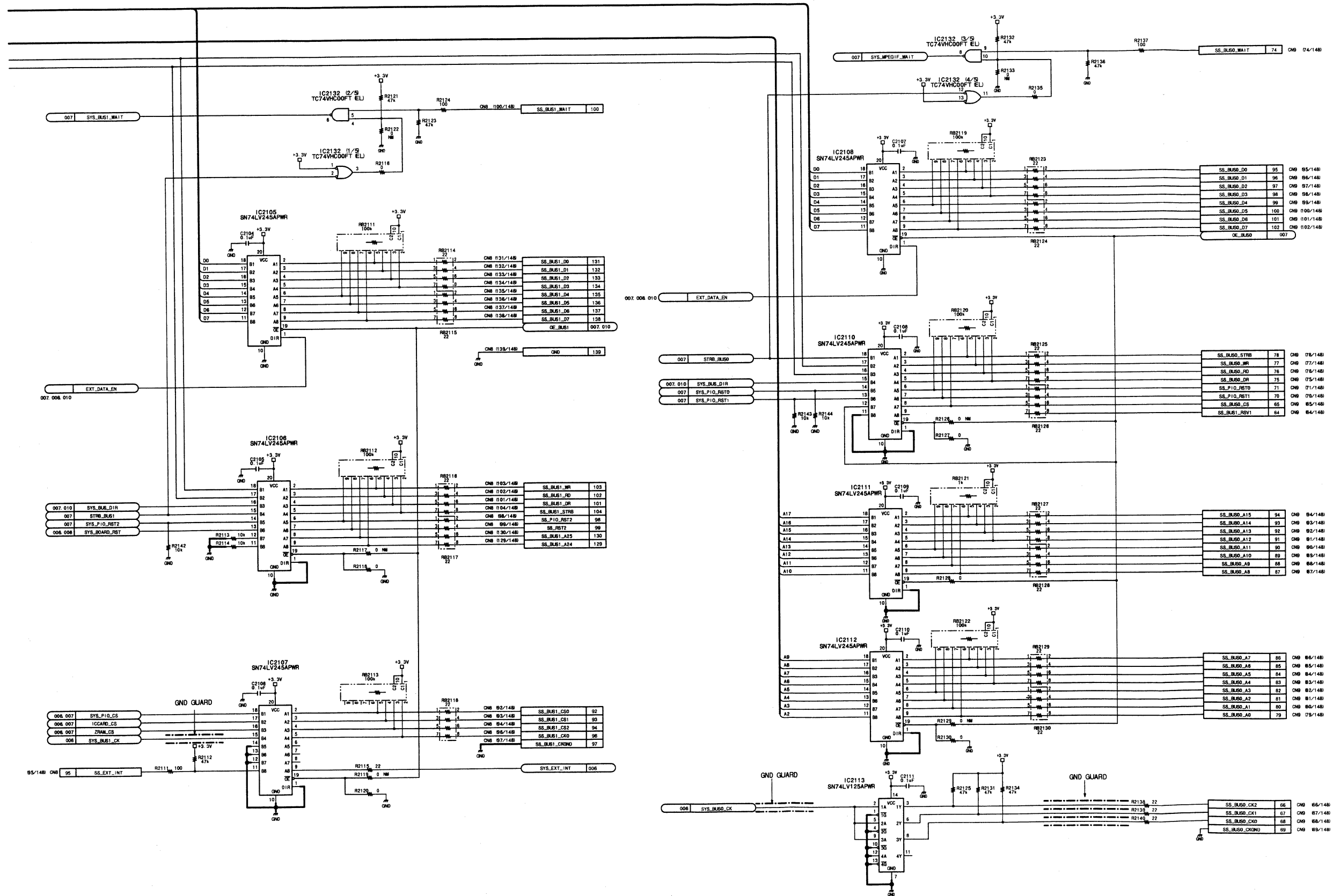




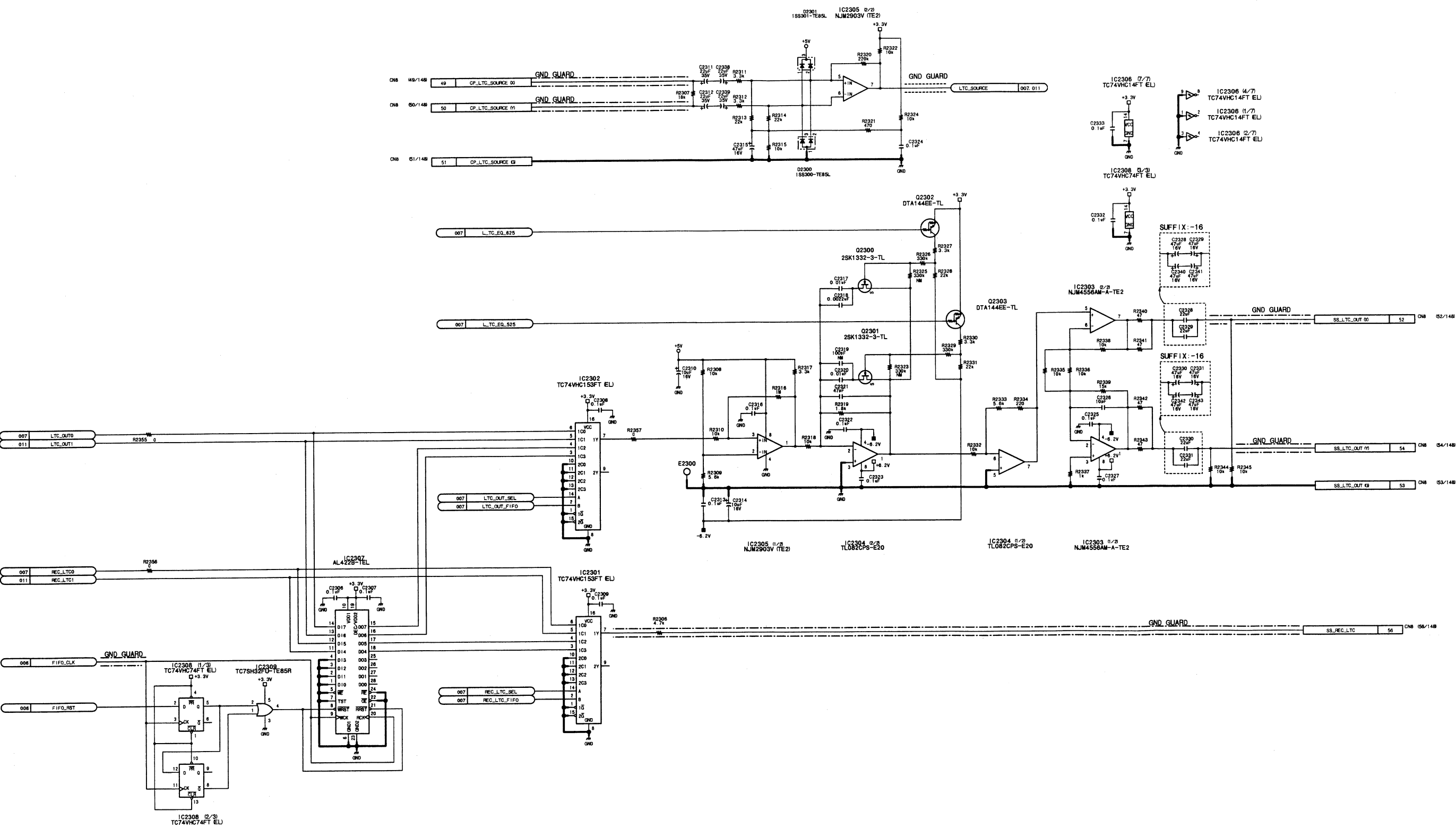




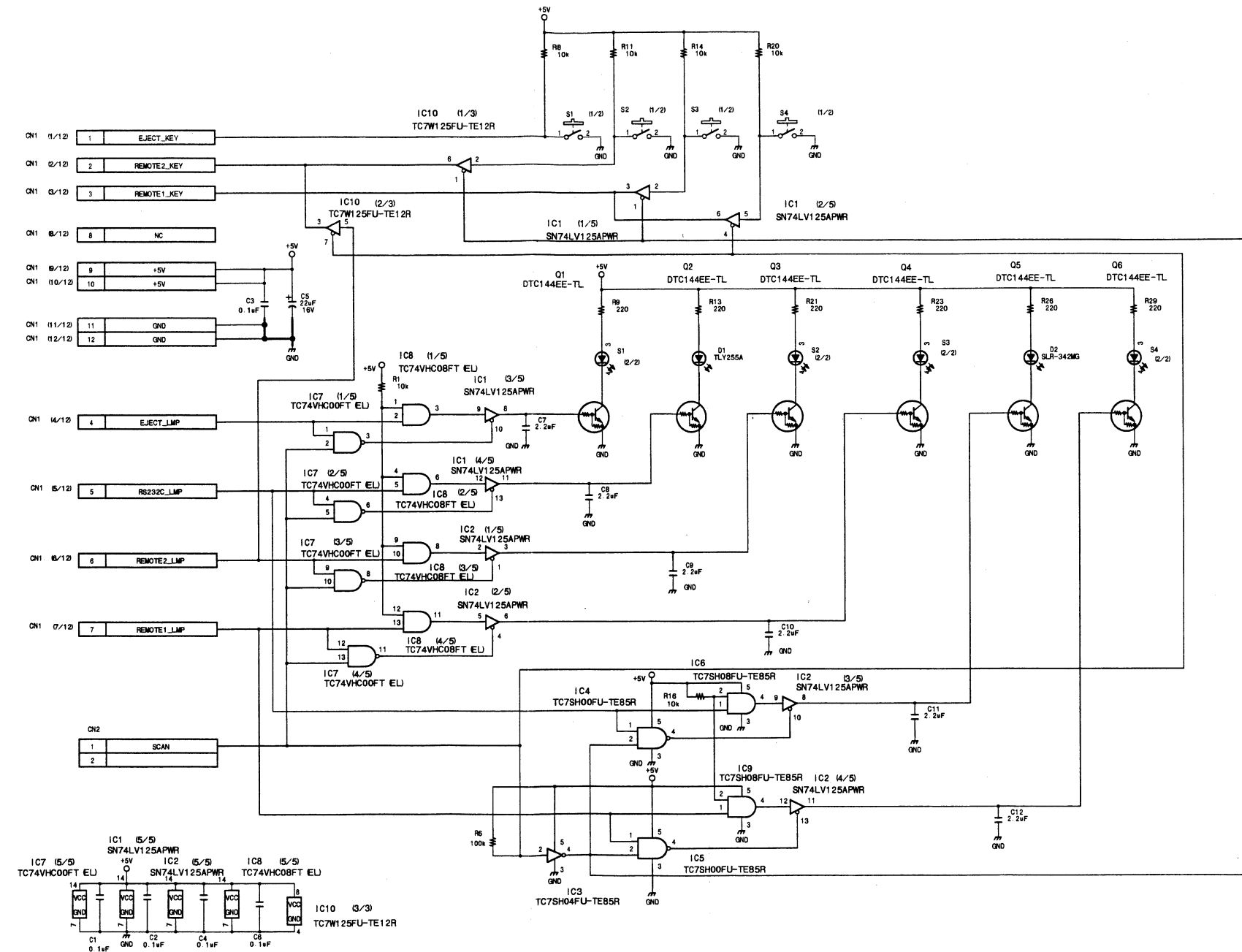




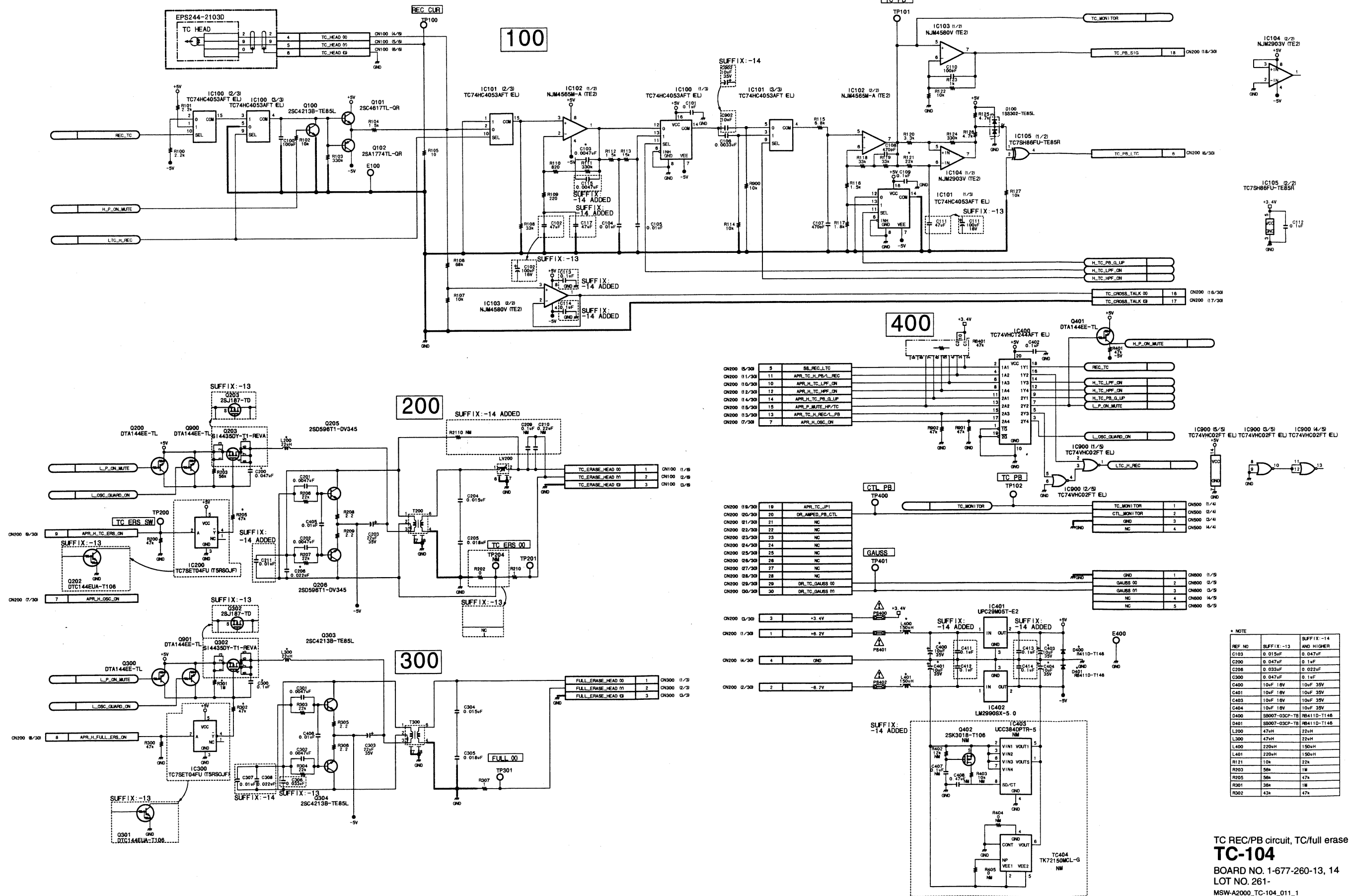
System control, Servo control
SS-89 (10/11)
BOARD NO. 1-677-285-16, 17
LOT NO. 261-
MSW-A2000_SS-89_114_10

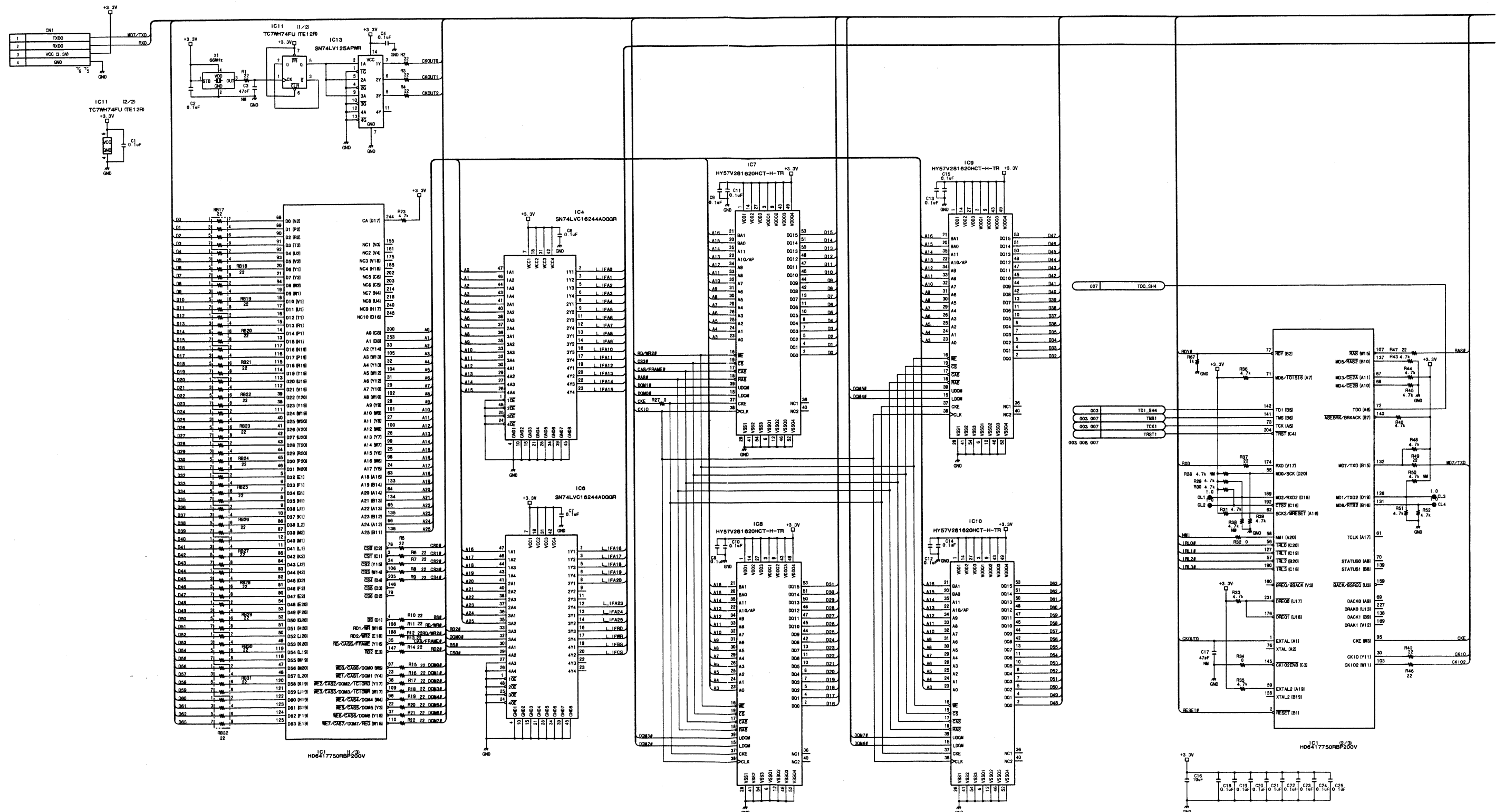


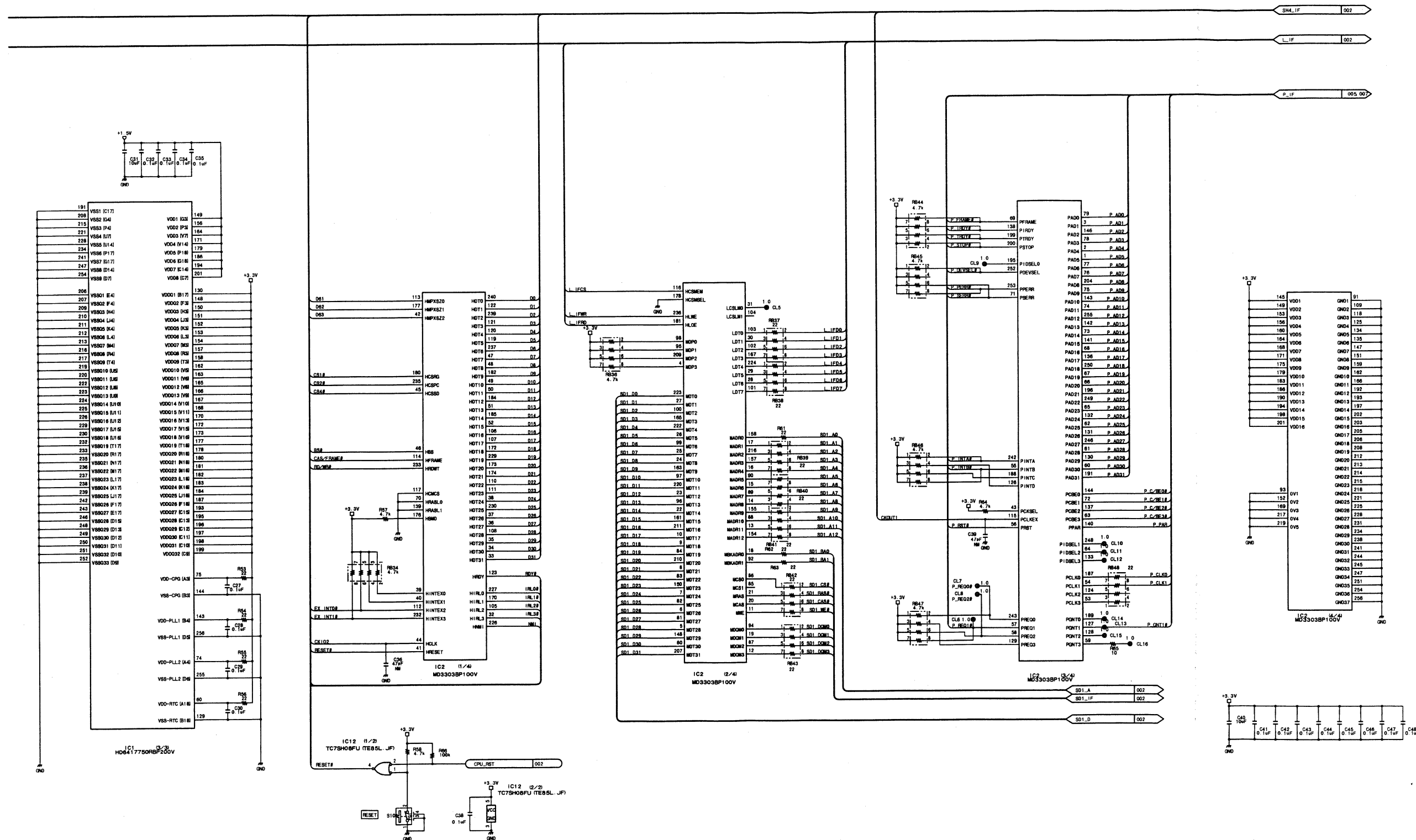
System control, Servo control
SS-89 (11/11)
BOARD NO. 1-677-285-16, 17
LOT NO. 261-
MSW-A2000_SS-89_114_11



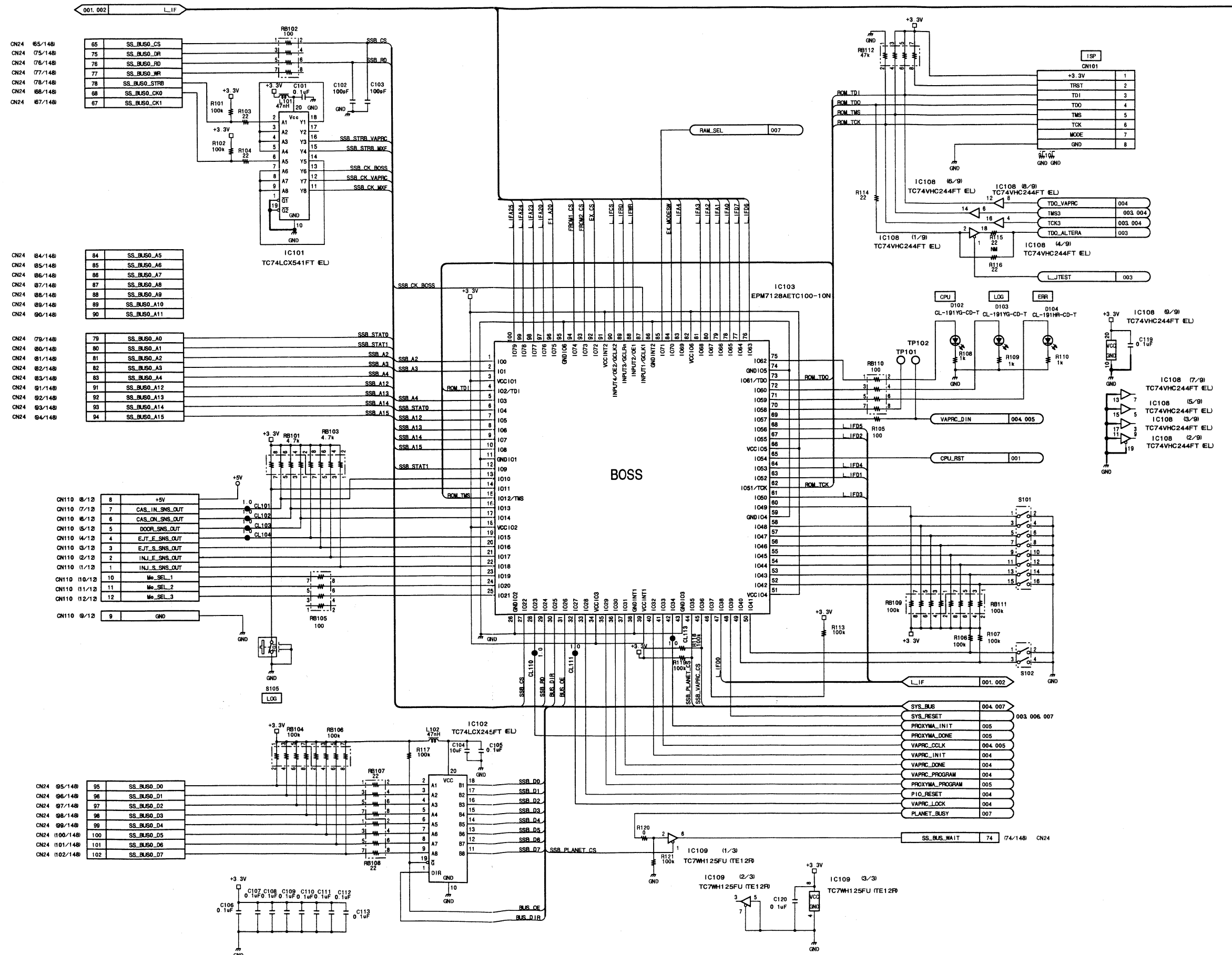
Upper control panel function (REMOTE, EJECT)
SW-1106
 BOARD NO. 1-687-220-11, 12
 LOT NO. 314- For BKMW-E2000 (Option for MSW)
 BCX-256_SW-1106_102_1

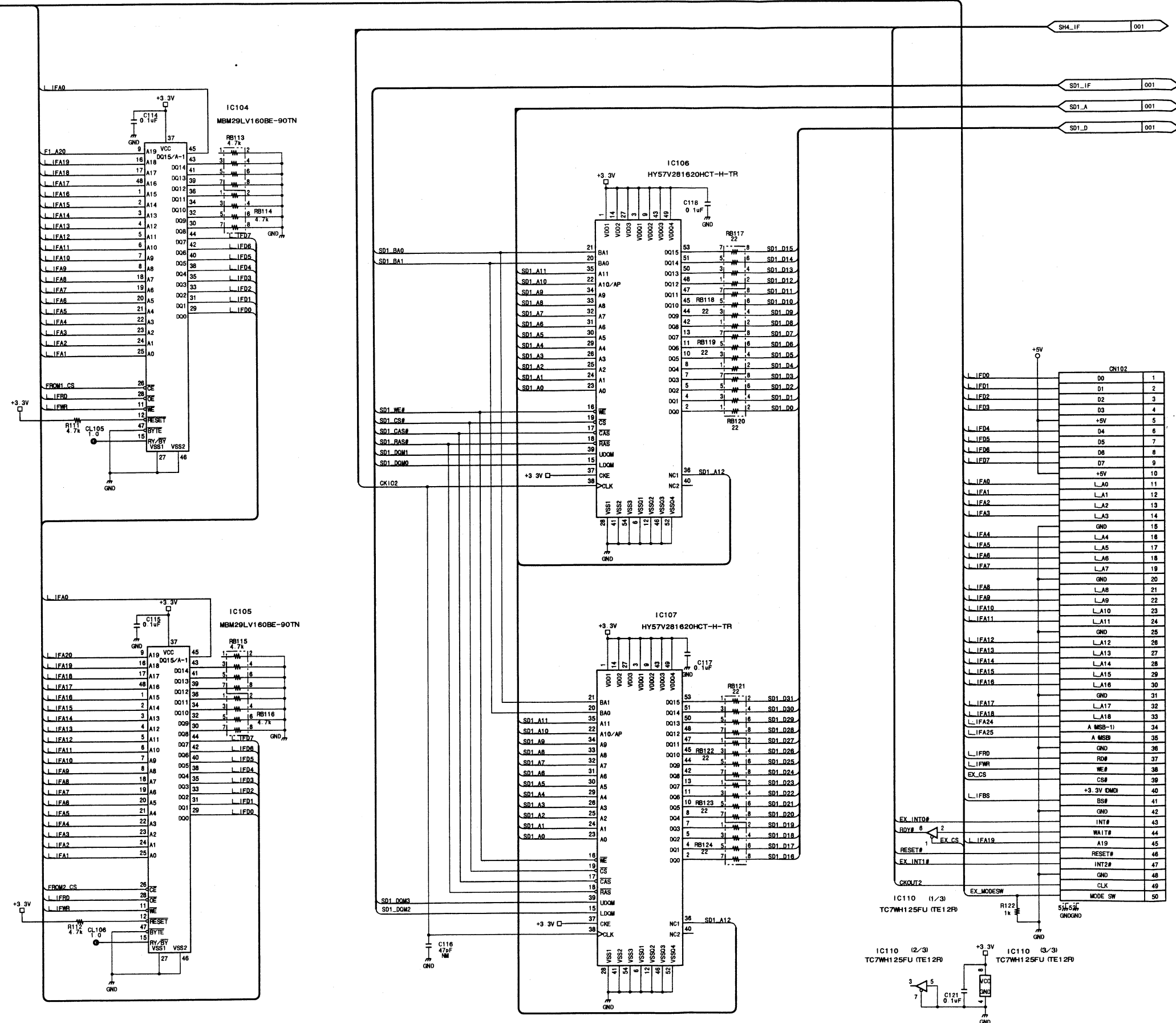






Network interface
VN-13 (1/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289_VN-13_13F_1





Network interface
VN-13 (2/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289_VN-13_13F_2

CN24	070/148	70	SS_PIO_RST1
CN24	071/148	71	SS_PIO_RST0
CN24	072/148	72	SS_RST1

CN24	03/148	3	HIF_ENC_Y0X
CN24	04/148	4	HIF_ENC_Y0Y
CN24	05/148	5	HIF_ENC_Y1X
CN24	06/148	6	HIF_ENC_Y1Y
CN24	07/148	7	HIF_ENC_Y2X
CN24	08/148	8	HIF_ENC_Y2Y
CN24	09/148	9	HIF_ENC_Y3X
CN24	10/148	10	HIF_ENC_Y3Y
CN24	11/148	11	HIF_ENC_Y4X
CN24	12/148	12	HIF_ENC_Y4Y
CN24	13/148	13	HIF_ENC_Y5X
CN24	14/148	14	HIF_ENC_Y5Y
CN24	15/148	15	HIF_ENC_Y6X
CN24	16/148	16	HIF_ENC_Y6Y
CN24	17/148	17	HIF_ENC_Y7X
CN24	18/148	18	HIF_ENC_Y7Y

CN24	25/148	25	HIF_ENC_C0X
CN24	26/148	26	HIF_ENC_C0Y
CN24	27/148	27	HIF_ENC_C1X
CN24	28/148	28	HIF_ENC_C1Y
CN24	29/148	29	HIF_ENC_C2X
CN24	30/148	30	HIF_ENC_C2Y
CN24	31/148	31	HIF_ENC_C3X
CN24	32/148	32	HIF_ENC_C3Y
CN24	33/148	33	HIF_ENC_C4X
CN24	34/148	34	HIF_ENC_C4Y
CN24	35/148	35	HIF_ENC_C5X
CN24	36/148	36	HIF_ENC_C5Y
CN24	37/148	37	HIF_ENC_C6X
CN24	38/148	38	HIF_ENC_C6Y
CN24	39/148	39	HIF_ENC_C7X
CN24	40/148	40	HIF_ENC_C7Y
CN24	41/148	41	HIF_ENC_C8X
CN24	42/148	42	HIF_ENC_C8Y
CN24	43/148	43	HIF_ENC_C9X
CN24	44/148	44	HIF_ENC_C9Y

CN24	48/148	48	SS_OSD_CS1
CN24	49/148	49	SS_SYPSO_CMD
CN24	51/148	51	SS_SYPSO_OK
CN24	52/148	52	SS_BOARD_ID0
CN24	53/148	53	SS_BOARD_ID1
CN24	54/148	54	SS_SYPS3_RES
CN24	55/148	55	SS_SYPS3_CMD
CN24	56/148	56	SS_SYPS3_RDY
CN24	57/148	57	SS_SYPS3_OK
CN24	64/148	64	SS_BUS0_RS0V1
CN24	66/148	66	SS_BUS0_OK2

CN24	69/148	69	SS_BUS0_CK0ND
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CN24	103/148	103	RESERVE
CN24	104/148	104	RESERVE
CN24	105/148	105	RESERVE
CN24	106/148	106	RESERVE
CN24	107/148	107	RESERVE
CN24	108/148	108	RESERVE

CN24	109/148	109	+2.5V
CN24	110/148	110	+2.5V
CN24	111/148	111	+2.5V
CN24	112/148	112	+2.5V
CN24	113/148	113	+2.5V
CN24	114/148	114	+2.5V

CN24	115/148	115	+3.4V
CN24	116/148	116	+3.4V
CN24	117/148	117	+3.4V
CN24	118/148	118	+3.4V
CN24	119/148	119	+3.4V
CN24	120/148	120	+3.4V
CN24	121/148	121	+3.4V
CN24	122/148	122	+3.4V

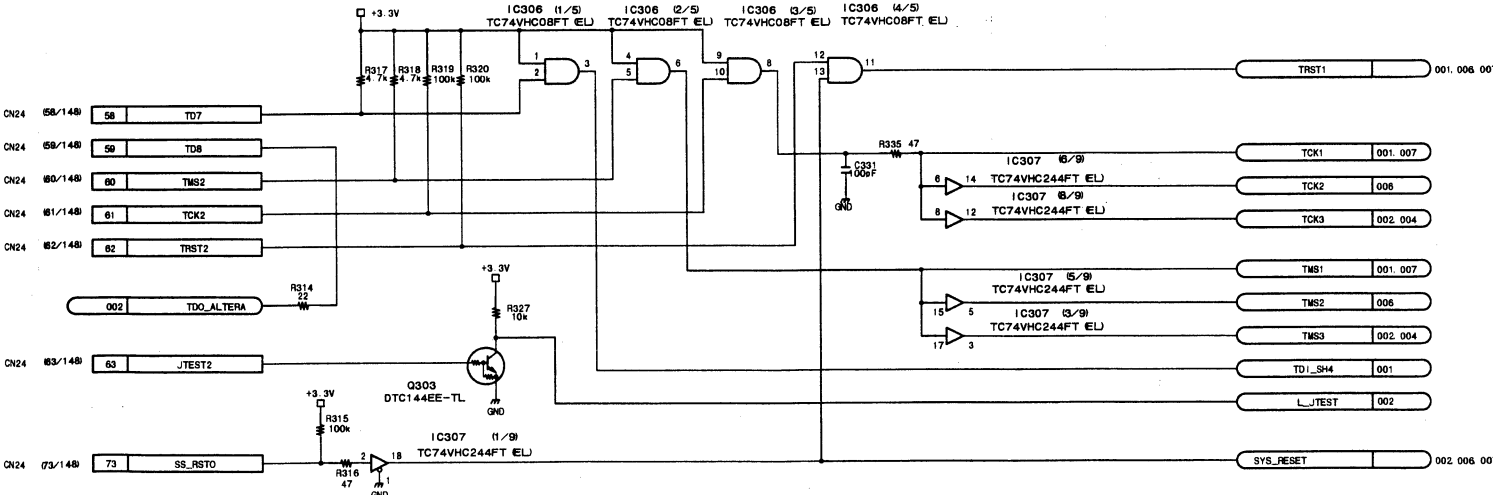
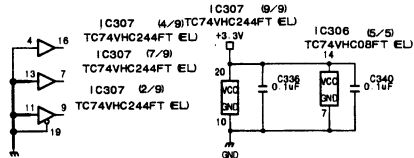
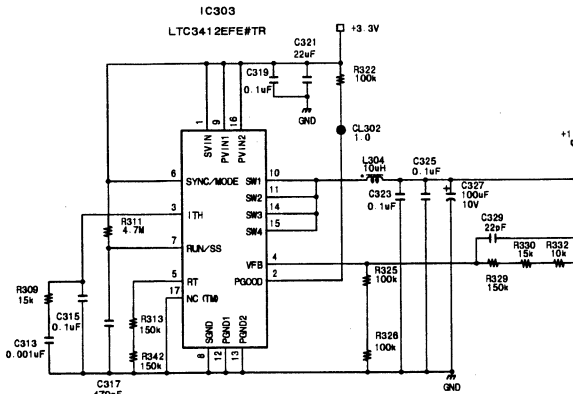
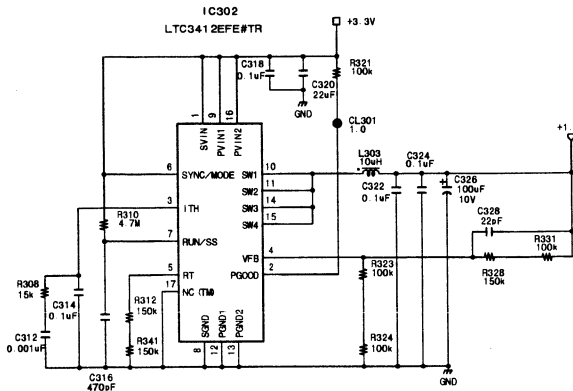
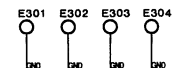
CN24	123/148	123	+5.2V
CN24	124/148	124	+5.2V
CN24	125/148	125	+5.2V
CN24	126/148	126	+5.2V
CN24	127/148	127	+5.2V
CN24	128/148	128	+5.2V

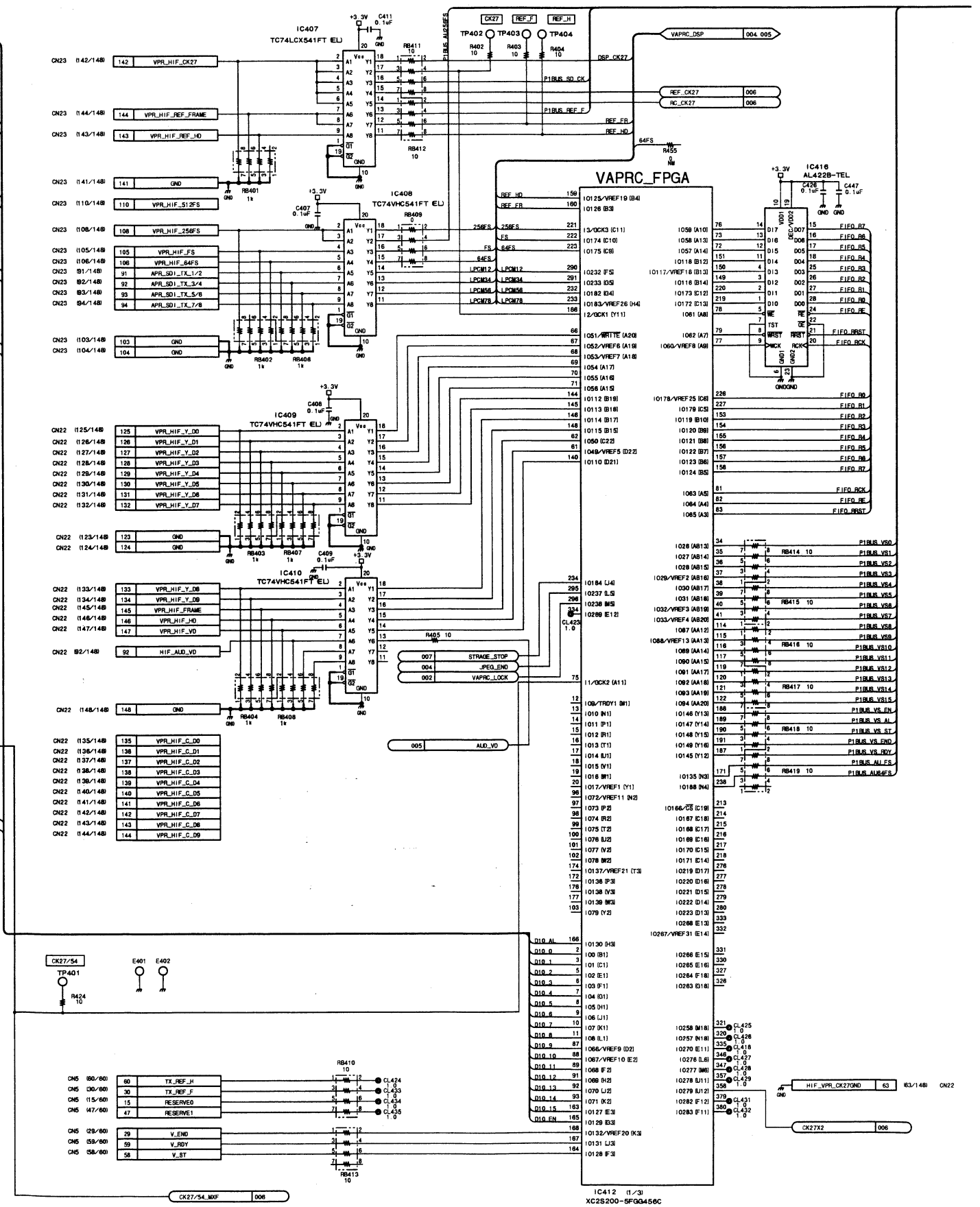
CN24	133/148	133	-5.2V
CN24	134/148	134	-5.2V
CN24	135/148	135	-5.2V
CN24	136/148	136	-5.2V

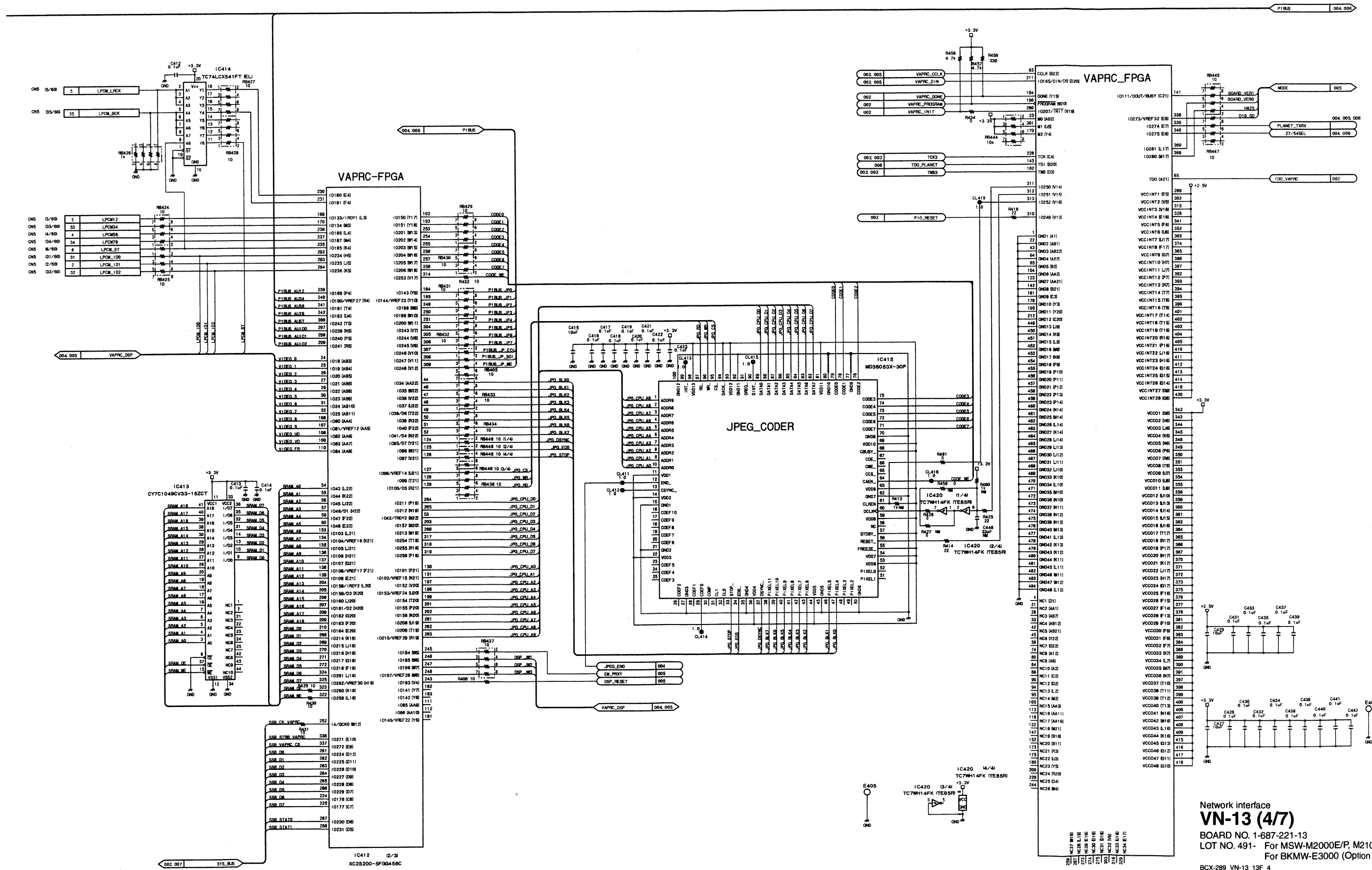
CN24	129/148	129	+15V
CN24	130/148	130	+15V
CN24	131/148	131	+15V
CN24	132/148	132	+15V

CN24	137/148	137	-15V
CN24	138/148	138	-15V
CN24	139/148	139	-15V
CN24	140/148	140	-15V

CN24	1/148	1	GND
CN24	2/148	2	GND
CN24	23/148	23	GND
CN24	24/148	24	GND
CN24	45/148	45	GND
CN24	46/148	46	GND
CN24	47/148	47	GND
CN24	141/148	141	GND
CN24	142/148	142	GND
CN24	143/148	143	GND
CN24	144/148	144	GND
CN24	145/148	145	GND
CN24	146/148	146	GND
CN24	147/148	147	GND
CN24	148/148	148	GND

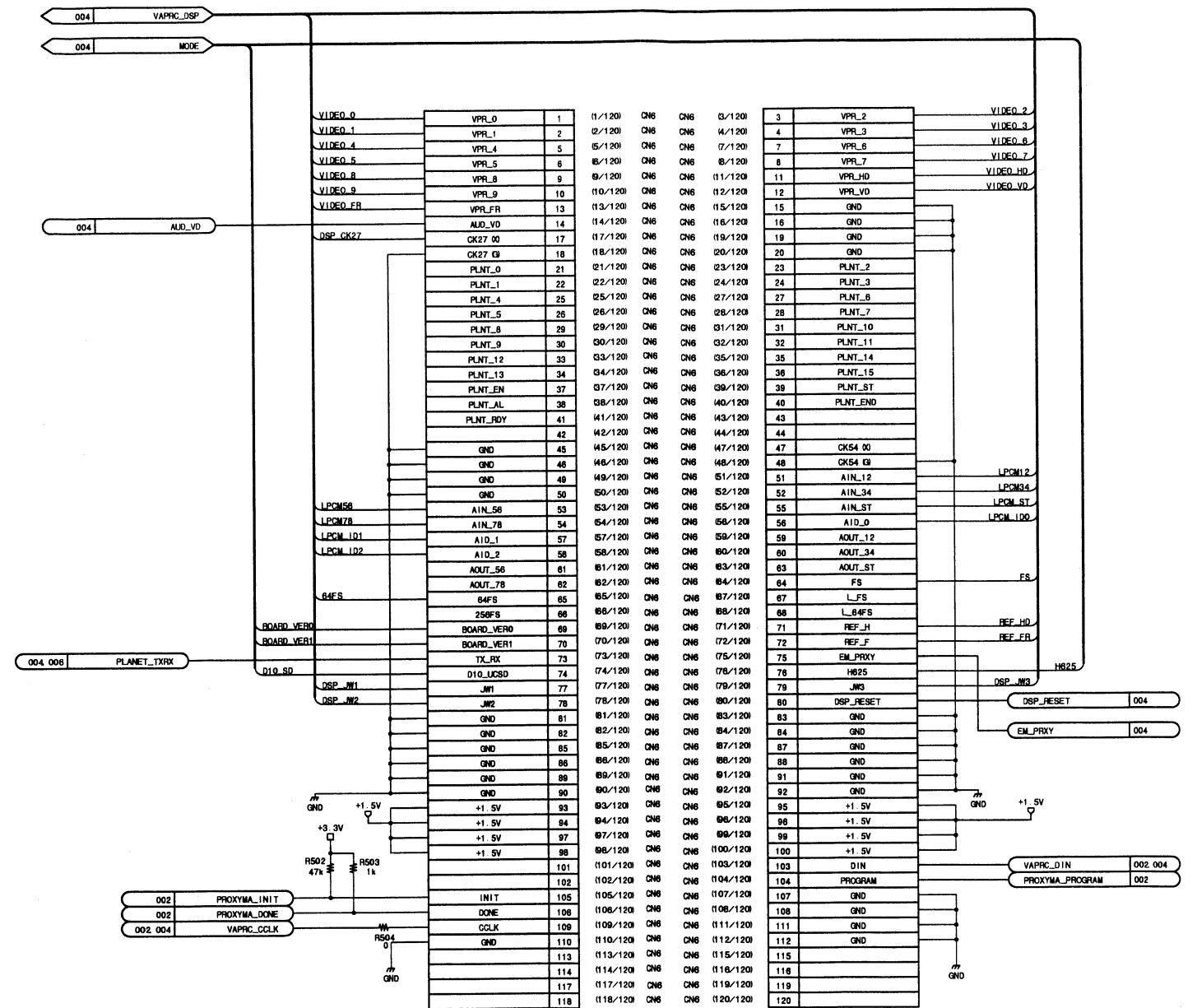
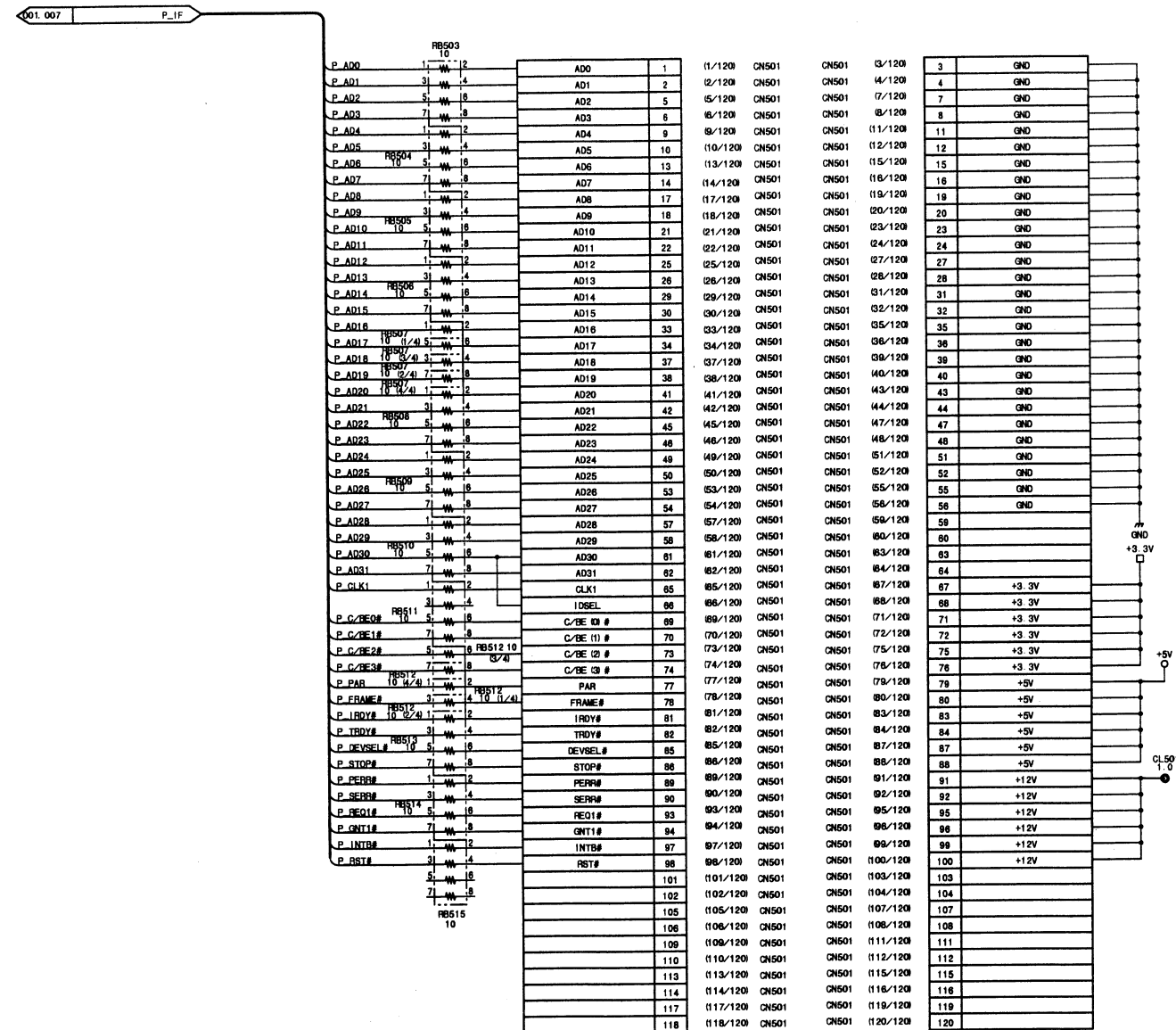






Network interface
VN-13 (4/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289-VN-13_13F_4

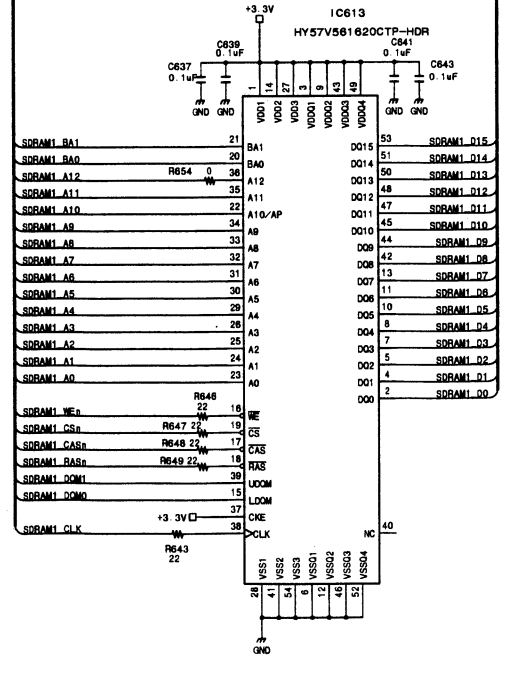
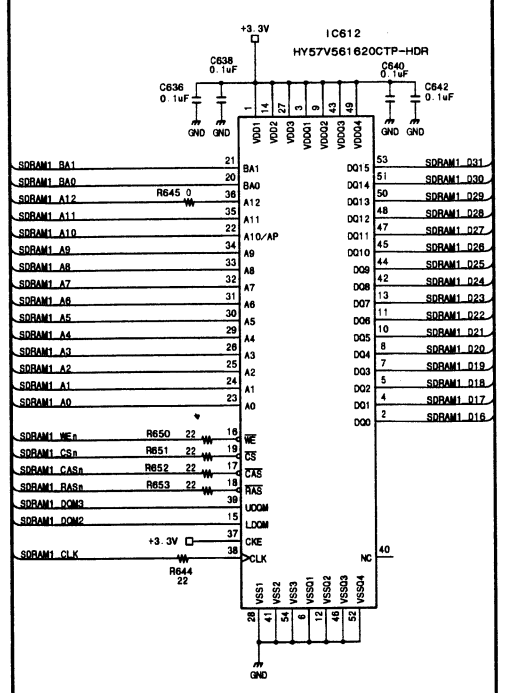
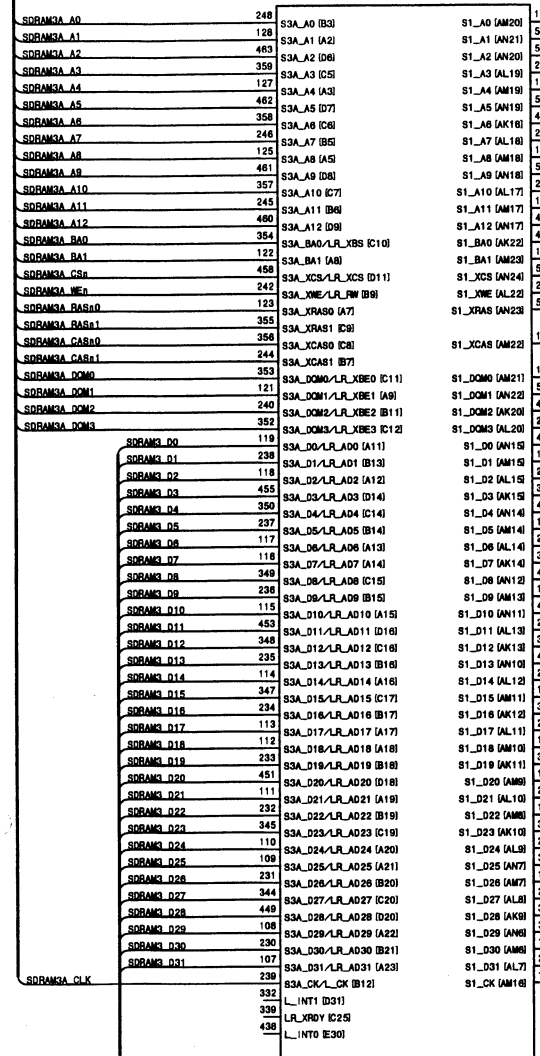
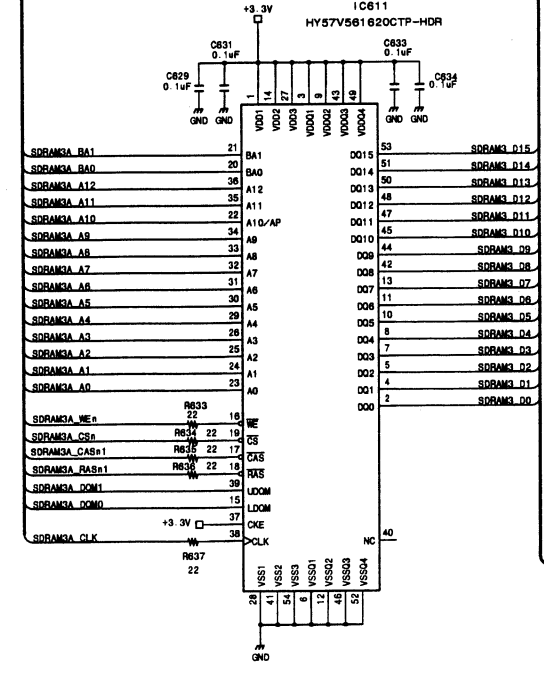
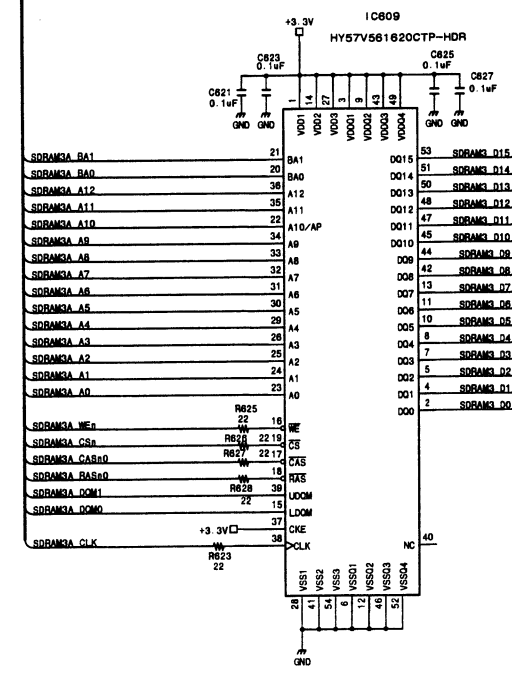
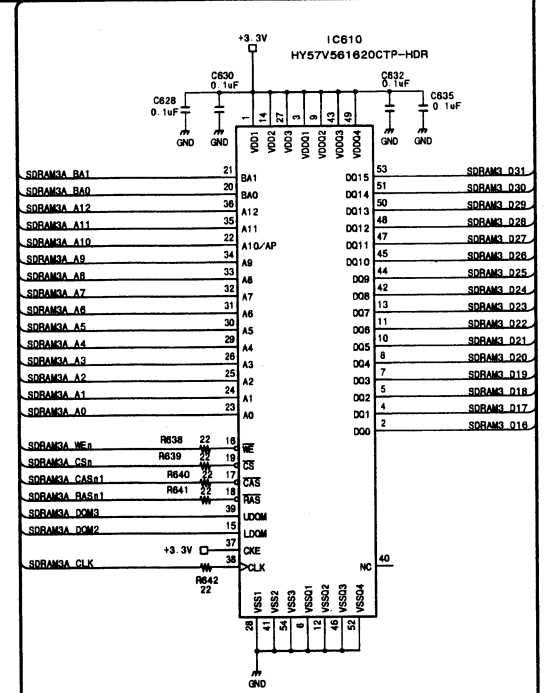
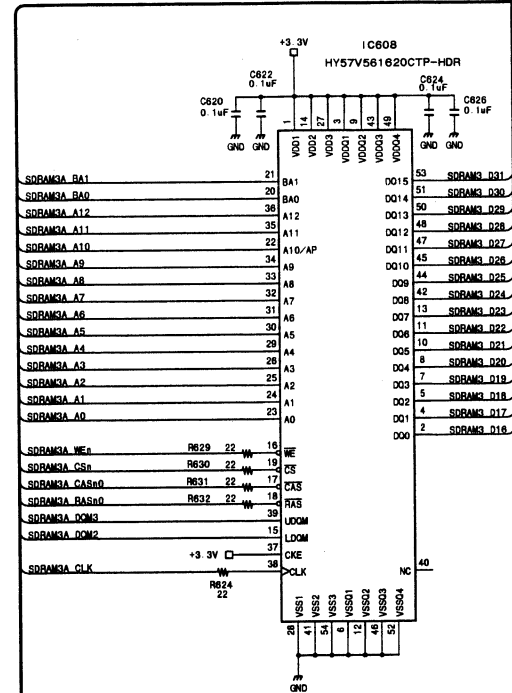




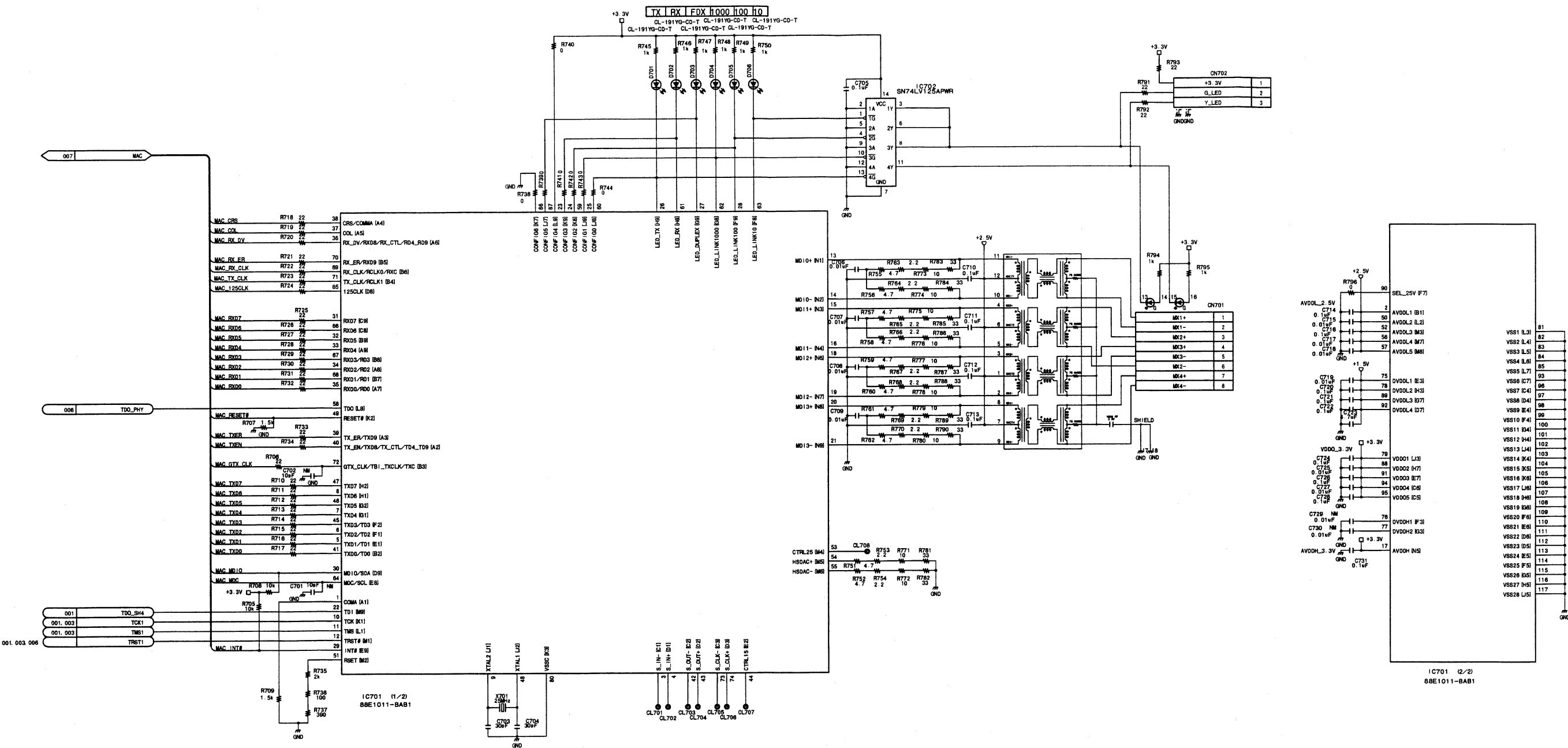
Network interface
VN-13 (5/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289_VN-13_13F_5

SDRAM3A

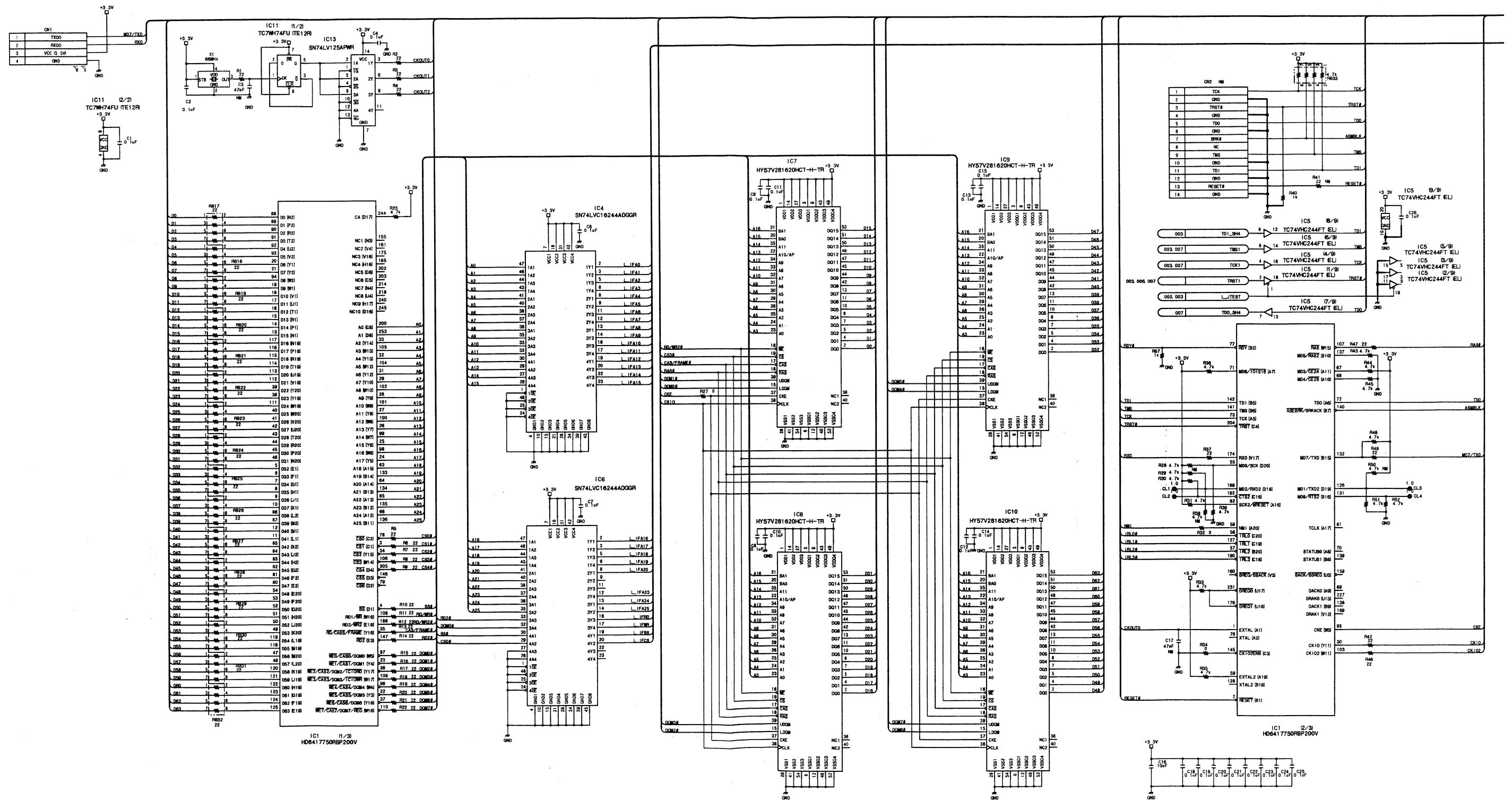
SDRAM1

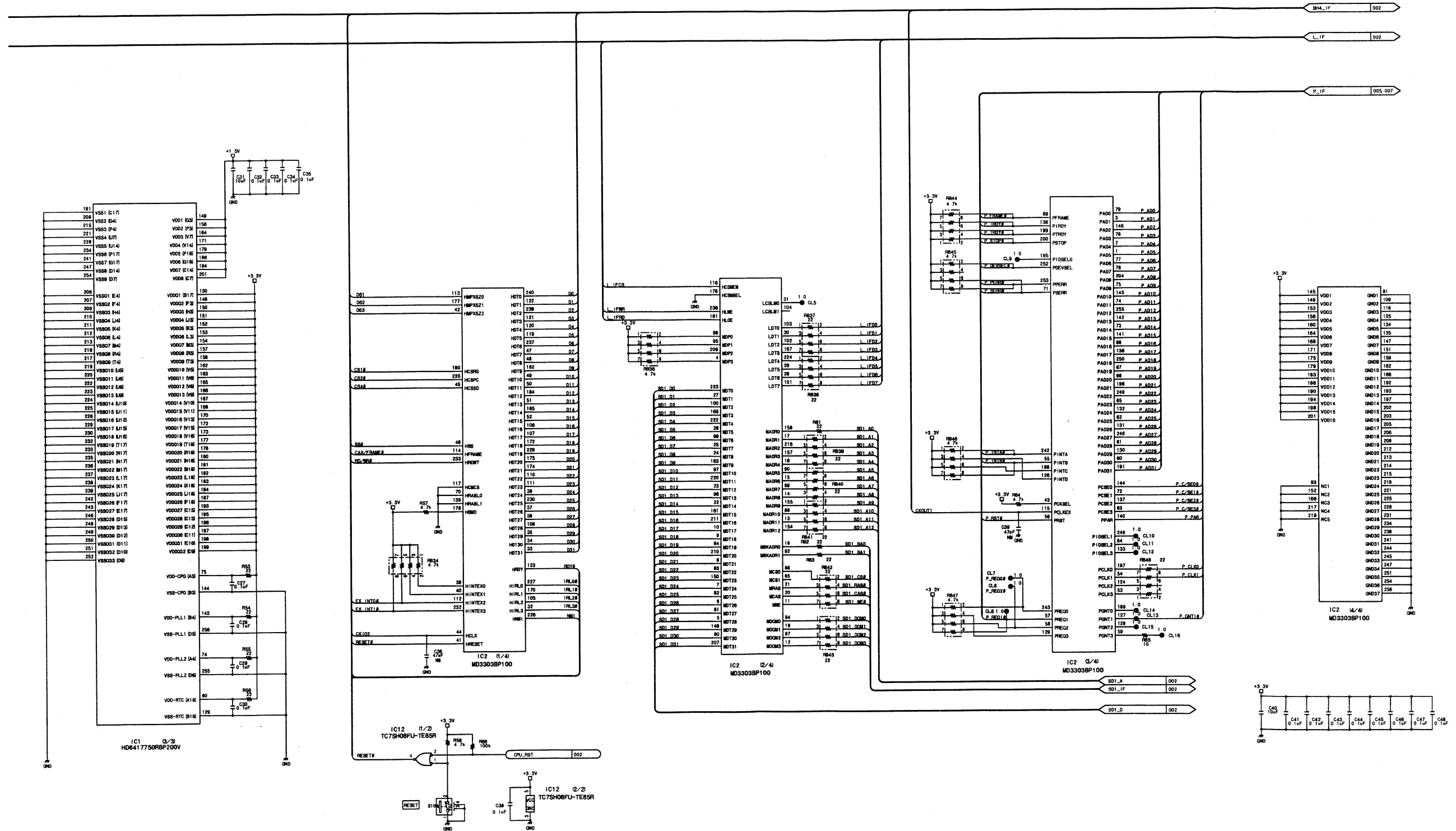


Network interface
VN-13 (6/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289_VN-13_13F_6

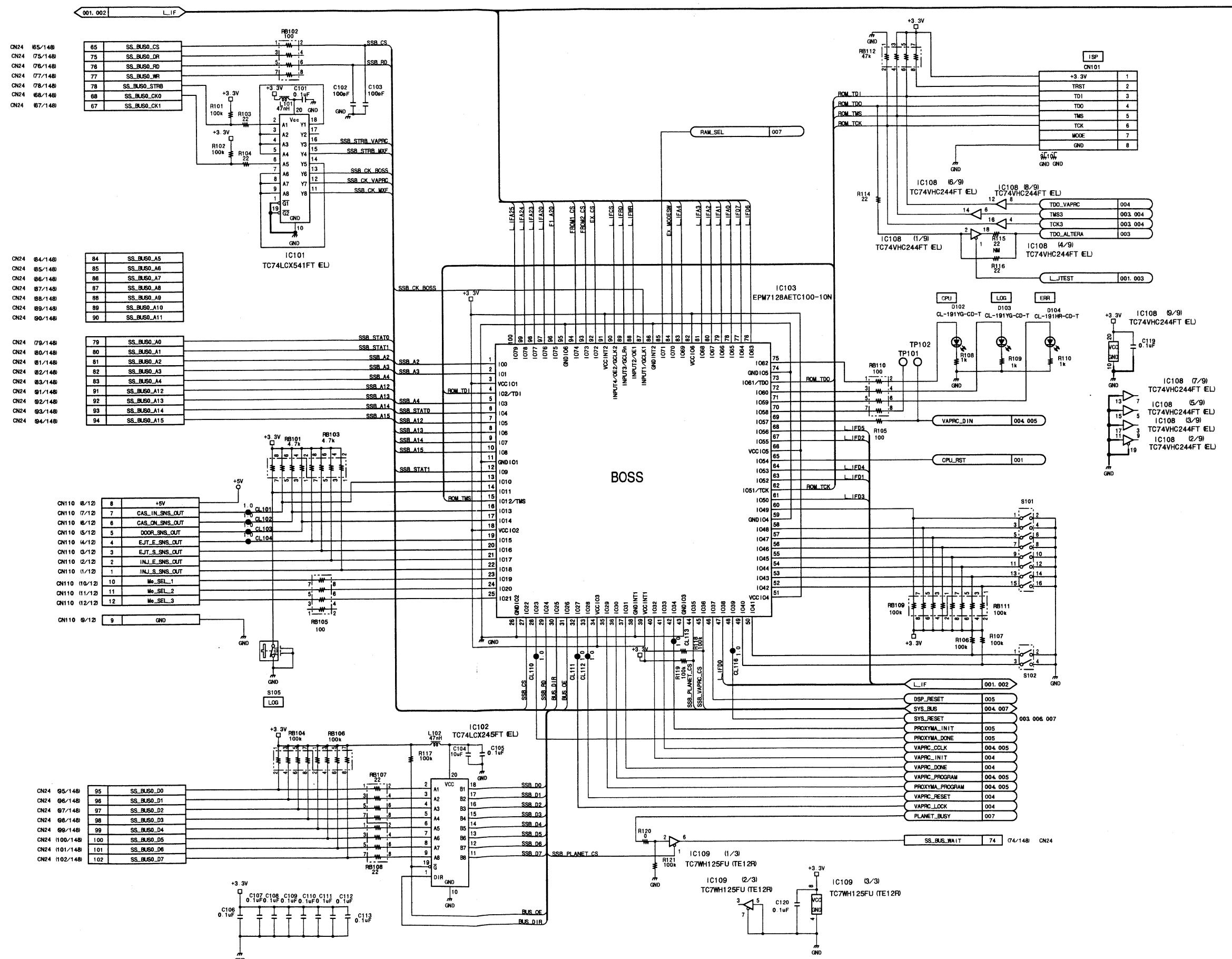


Network interface
VN-13 (7/7)
BOARD NO. 1-687-221-13
LOT NO. 491- For MSW-M2000E/P, M2100E/P
For BKMW-E3000 (Option for MSW)
BCX-289_VN-13_13F_7





Network interface
VN-13 (1/7)
BOARD NO. 1-687-221-12
LOT NO. 451-484 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_12Q_1



CN24	70/148	70	SS_PIO_RST1
CN24	71/148	71	SS_PIO_RST0
CN24	72/148	72	SS_RST1

CN24	3/148	3	HIF_ENC_Y0X
CN24	4/148	4	HIF_ENC_Y0Y
CN24	5/148	5	HIF_ENC_Y1X
CN24	6/148	6	HIF_ENC_Y1Y
CN24	7/148	7	HIF_ENC_Y2X
CN24	8/148	8	HIF_ENC_Y2Y
CN24	9/148	9	HIF_ENC_Y3X
CN24	10/148	10	HIF_ENC_Y3Y
CN24	11/148	11	HIF_ENC_Y4X
CN24	12/148	12	HIF_ENC_Y4Y
CN24	13/148	13	HIF_ENC_Y5X
CN24	14/148	14	HIF_ENC_Y5Y
CN24	15/148	15	HIF_ENC_Y6X
CN24	16/148	16	HIF_ENC_Y6Y
CN24	17/148	17	HIF_ENC_Y7X
CN24	18/148	18	HIF_ENC_Y7Y

CN24	25/148	25	HIF_ENC_C0X
CN24	26/148	26	HIF_ENC_C0Y
CN24	27/148	27	HIF_ENC_C1X
CN24	28/148	28	HIF_ENC_C1Y
CN24	29/148	29	HIF_ENC_C2X
CN24	30/148	30	HIF_ENC_C2Y
CN24	31/148	31	HIF_ENC_C3X
CN24	32/148	32	HIF_ENC_C3Y
CN24	33/148	33	HIF_ENC_C4X
CN24	34/148	34	HIF_ENC_C4Y
CN24	35/148	35	HIF_ENC_C5X
CN24	36/148	36	HIF_ENC_C5Y
CN24	37/148	37	HIF_ENC_C6X
CN24	38/148	38	HIF_ENC_C6Y
CN24	39/148	39	HIF_ENC_C7X
CN24	40/148	40	HIF_ENC_C7Y
CN24	41/148	41	HIF_ENC_C8X
CN24	42/148	42	HIF_ENC_C8Y
CN24	43/148	43	HIF_ENC_C9X
CN24	44/148	44	HIF_ENC_C9Y

CN24	48/148	48	SS_OSD_CS1
CN24	49/148	49	SS_SYP50_CMD
CN24	51/148	51	SS_SYP50_CK
CN24	52/148	52	SS_BOARD_ID0
CN24	53/148	53	SS_BOARD_ID1
CN24	54/148	54	SS_SYP53_RES
CN24	55/148	55	SS_SYP53_CMD
CN24	56/148	56	SS_SYP53_RDY
CN24	57/148	57	SS_SYP53_CK
CN24	64/148	64	SS_BUS0_RS0V1
CN24	66/148	66	SS_BUS0_CK2

CN24	69/148	69	SS_BUS0_CK0ND
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CN24	103/148	103	RESERVE
CN24	104/148	104	RESERVE
CN24	105/148	105	RESERVE
CN24	106/148	106	RESERVE
CN24	107/148	107	RESERVE
CN24	108/148	108	RESERVE

CN24	109/148	109	+2.5V
CN24	110/148	110	+2.5V
CN24	111/148	111	+2.5V
CN24	112/148	112	+2.5V
CN24	113/148	113	+2.5V
CN24	114/148	114	+2.5V

CN24	115/148	115	+3.4V
CN24	116/148	116	+3.4V
CN24	117/148	117	+3.4V
CN24	118/148	118	+3.4V
CN24	119/148	119	+3.4V
CN24	120/148	120	+3.4V
CN24	121/148	121	+3.4V
CN24	122/148	122	+3.4V

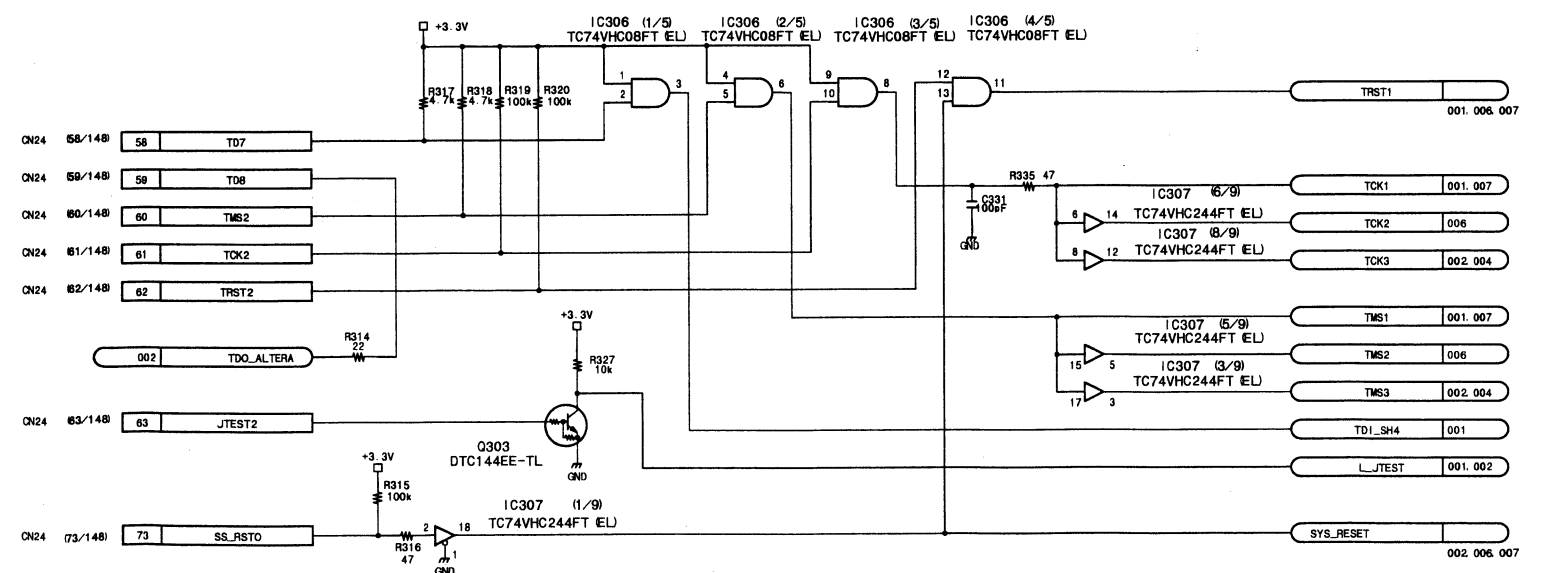
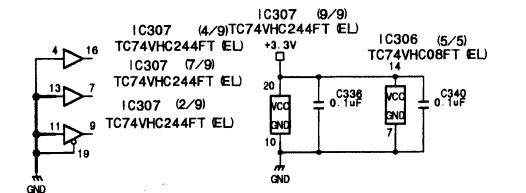
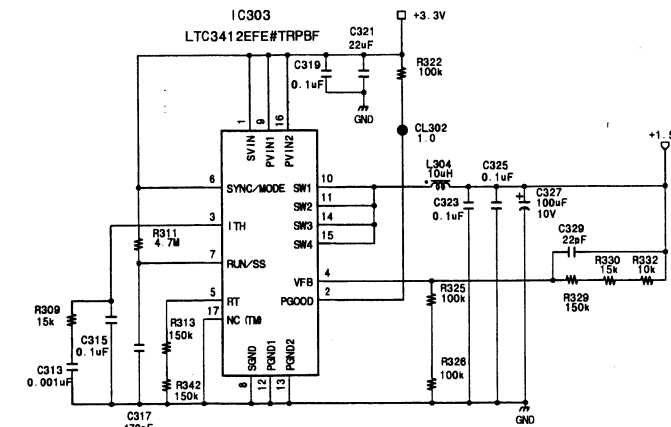
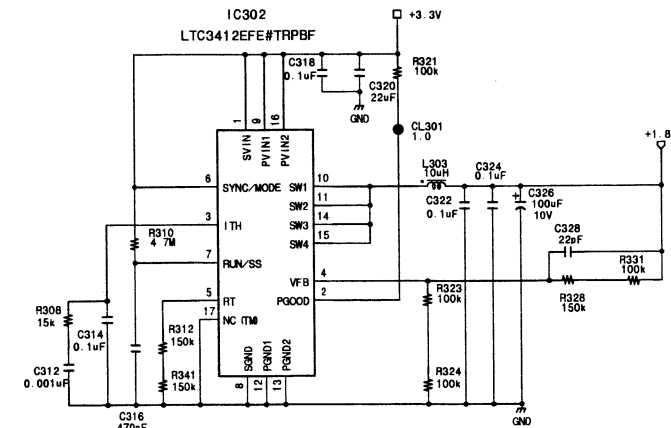
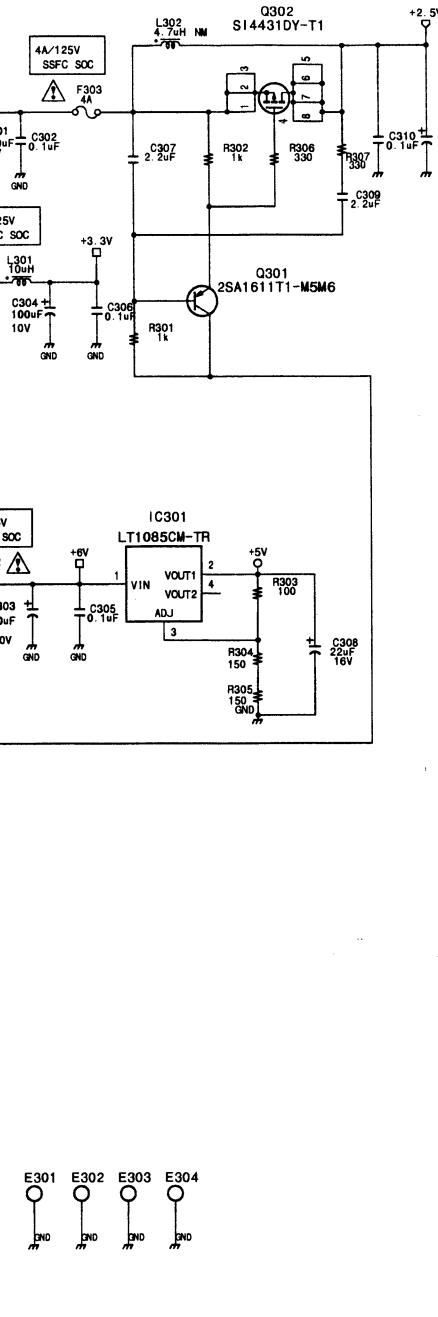
CN24	123/148	123	+6.2V
CN24	124/148	124	+6.2V
CN24	125/148	125	+6.2V
CN24	126/148	126	+6.2V
CN24	127/148	127	+6.2V
CN24	128/148	128	+6.2V

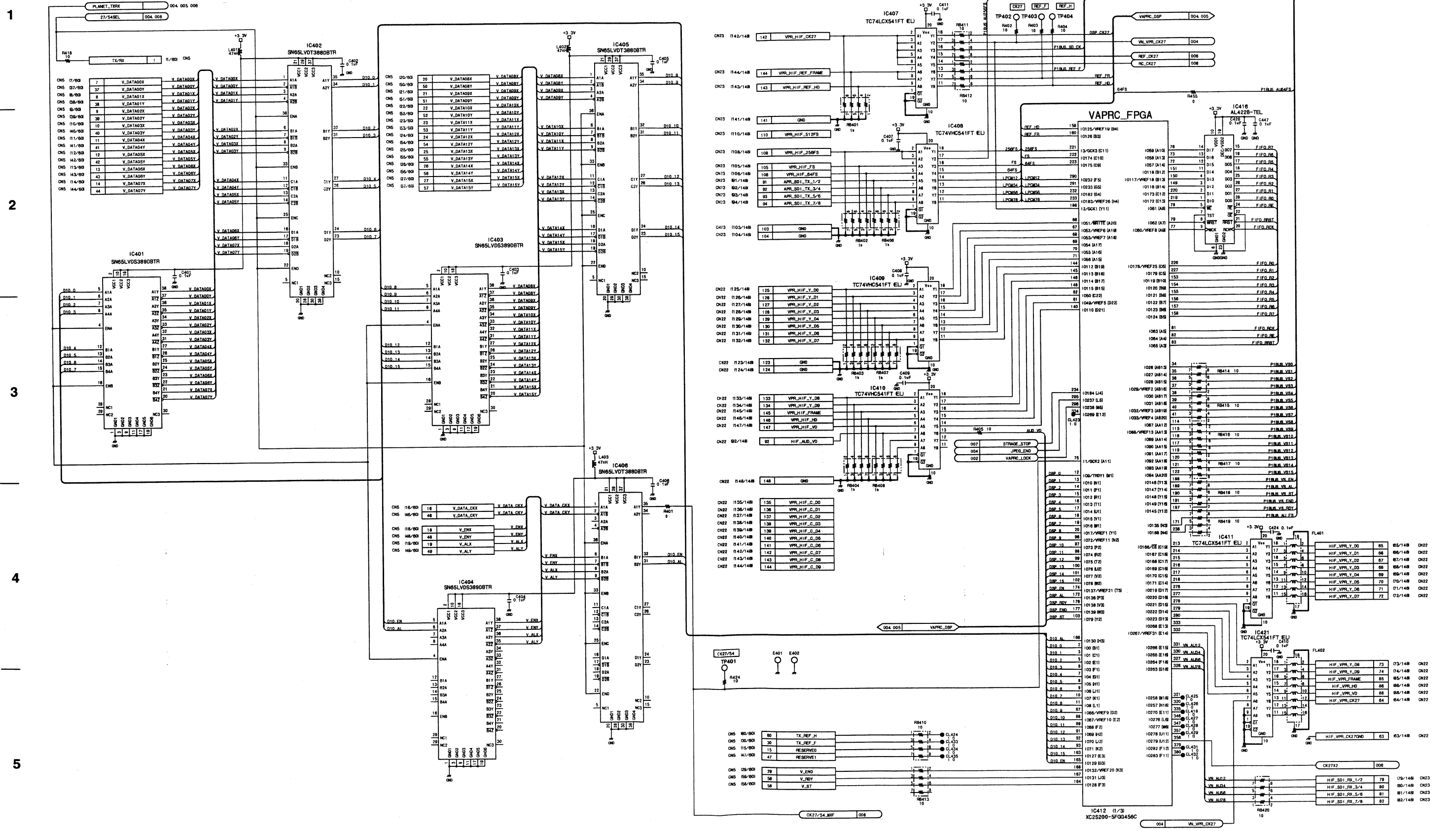
CN24	133/148	133	-6.2V
CN24	134/148	134	-6.2V
CN24	135/148	135	-6.2V
CN24	136/148	136	-6.2V

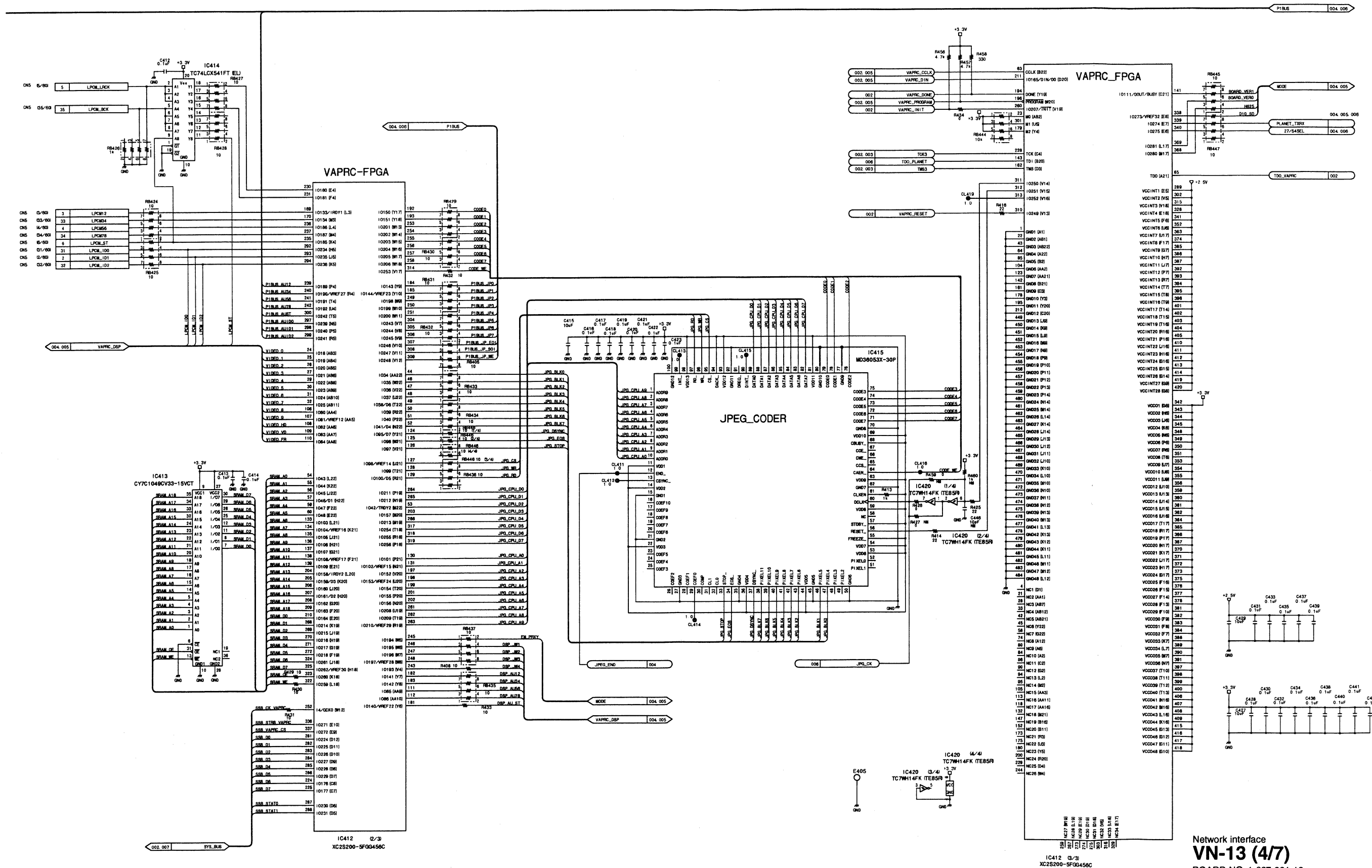
CN24	129/148	129	+15V
CN24	130/148	130	+15V
CN24	131/148	131	+15V
CN24	132/148	132	+15V

CN24	137/148	137	-15V
CN24	138/148	138	-15V
CN24	139/148	139	-15V
CN24	140/148	140	-15V

CN24	1/148	1	GND
CN24	2/148	2	GND
CN24	23/148	23	GND
CN24	24/148	24	GND
CN24	45/148	45	GND
CN24	46/148	46	GND
CN24	47/148	47	GND
CN24	141/148	141	GND
CN24	142/148	142	GND
CN24	143/148	143	GND
CN24	144/148	144	GND
CN24	145/148	145	GND
CN24	146/148	146	GND
CN24	147/148	147	GND
CN24	148/148	148	GND

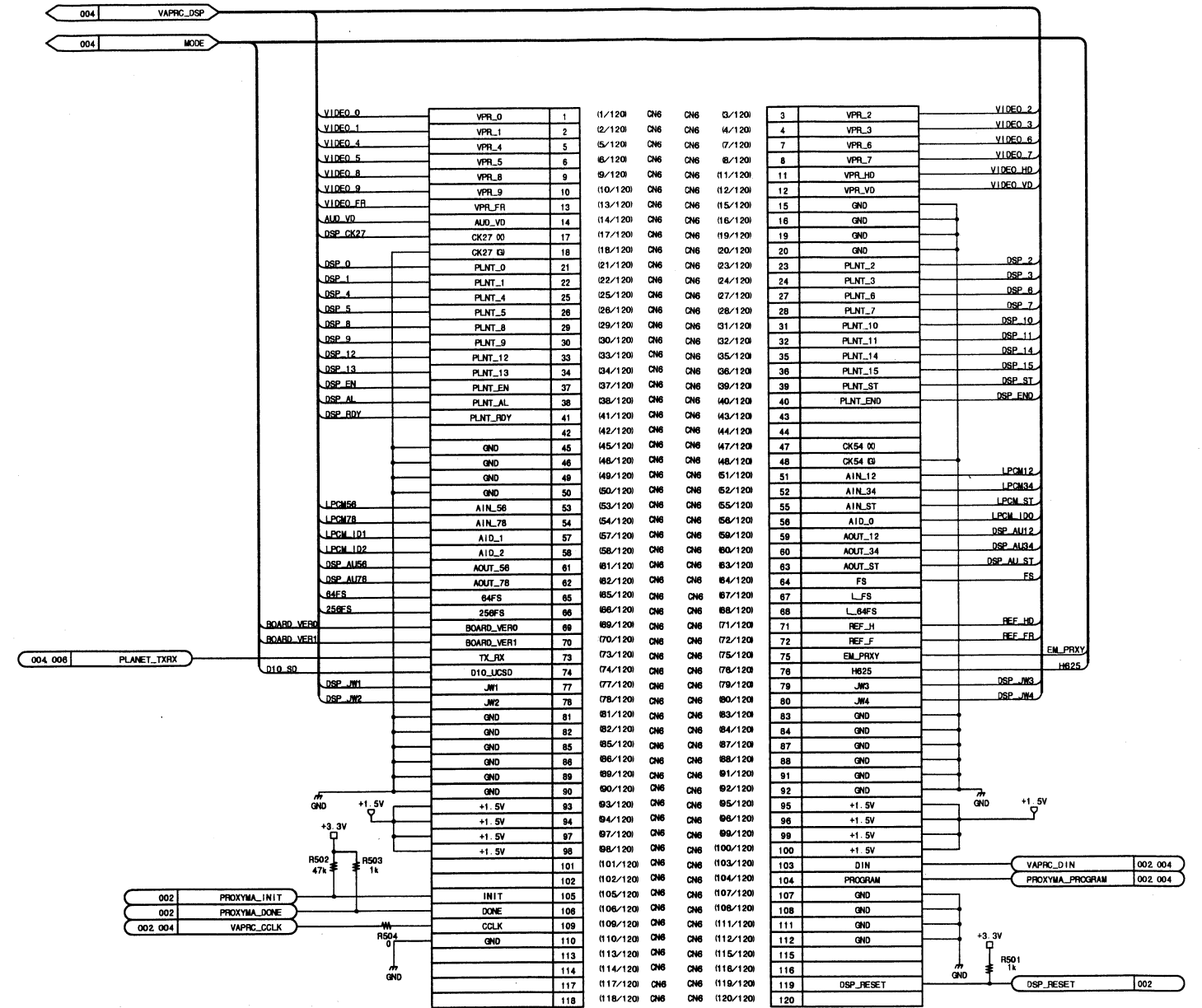






Network interface
VN-13 (4/7)
BOARD NO. 1-687-221-12
LOT NO. 451-484 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_12_Q_4



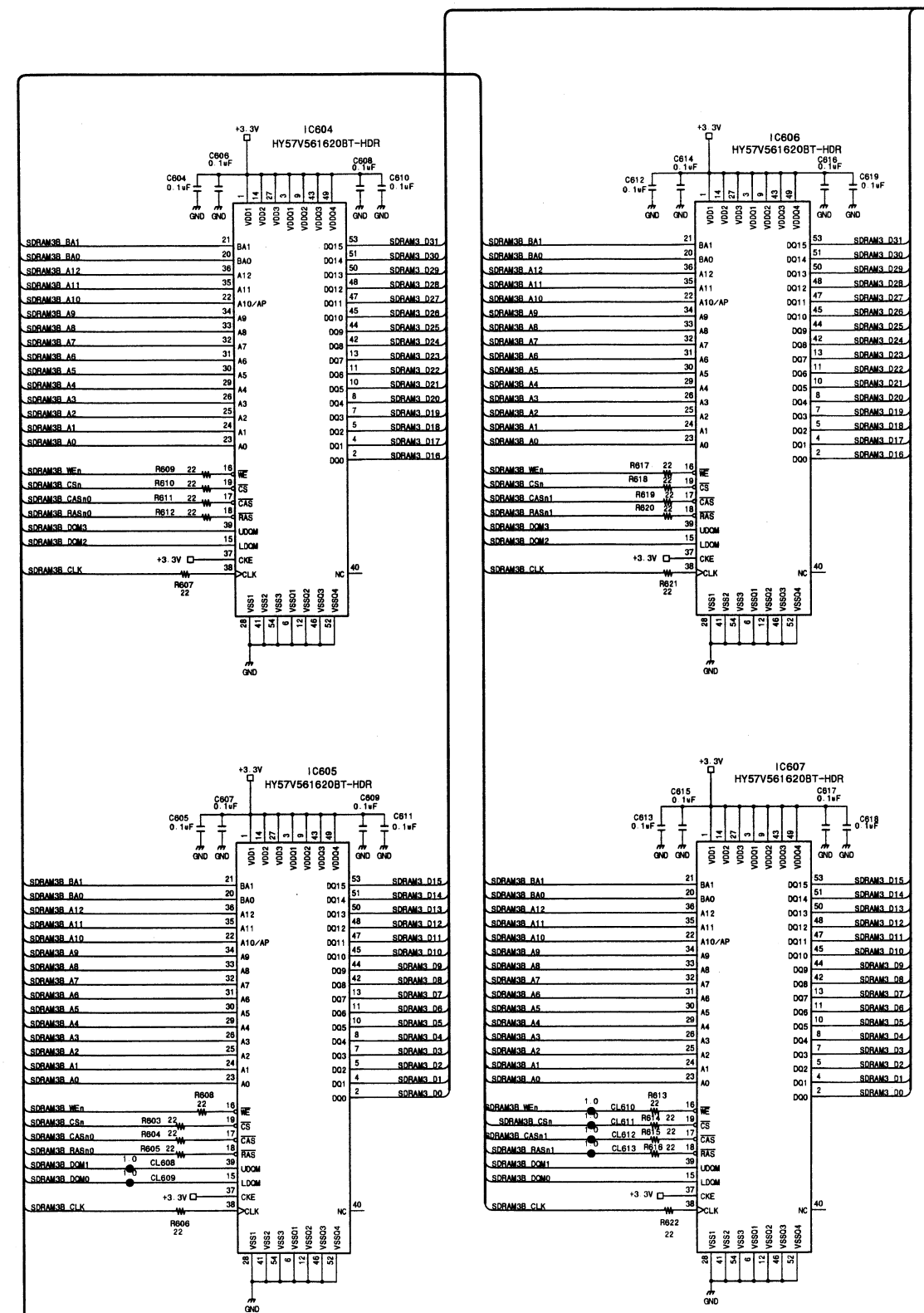
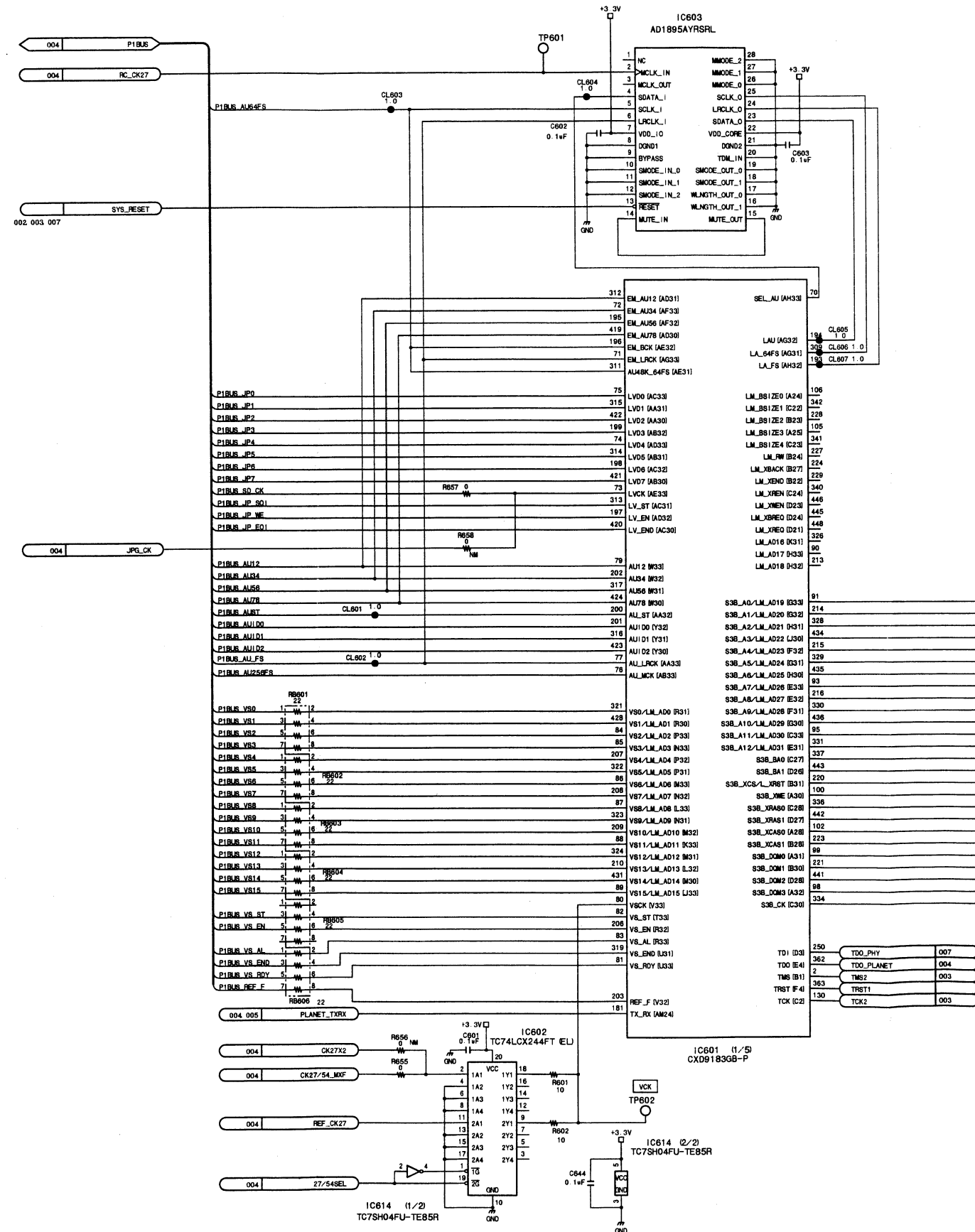


HDW series, DVW series, MSW series

1-339 (b)

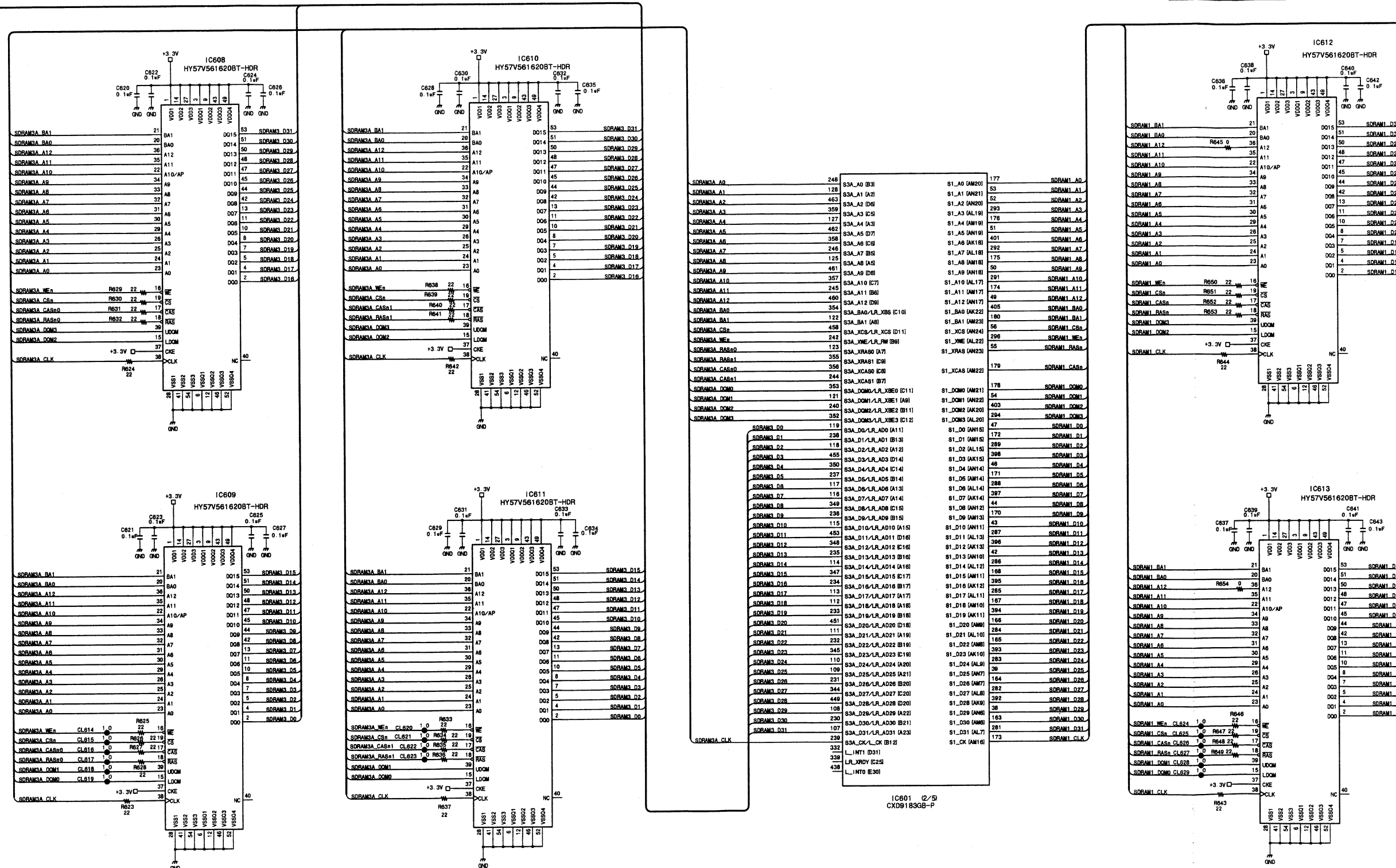
4

SDRAM3B

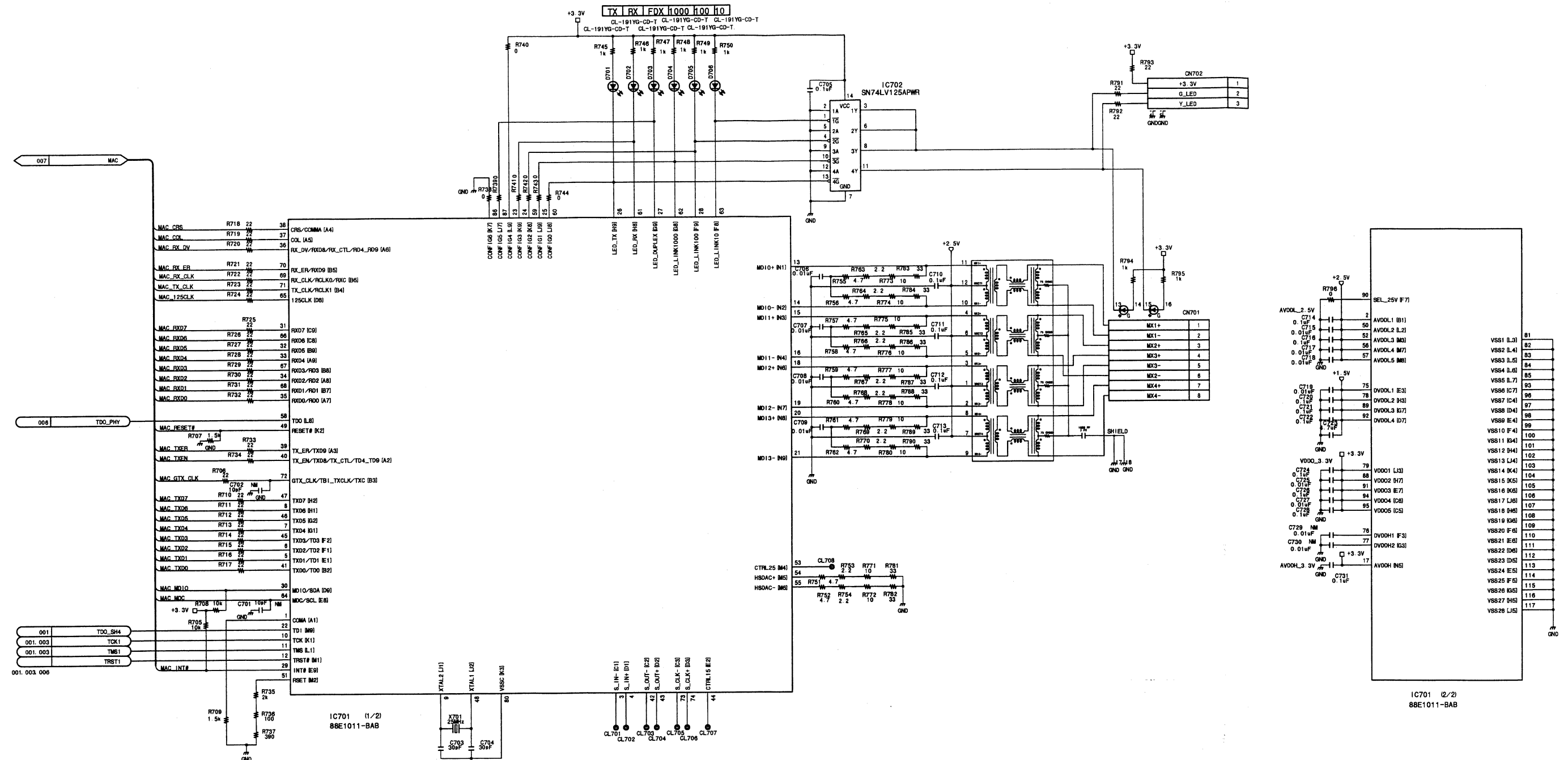


SDRAM3A

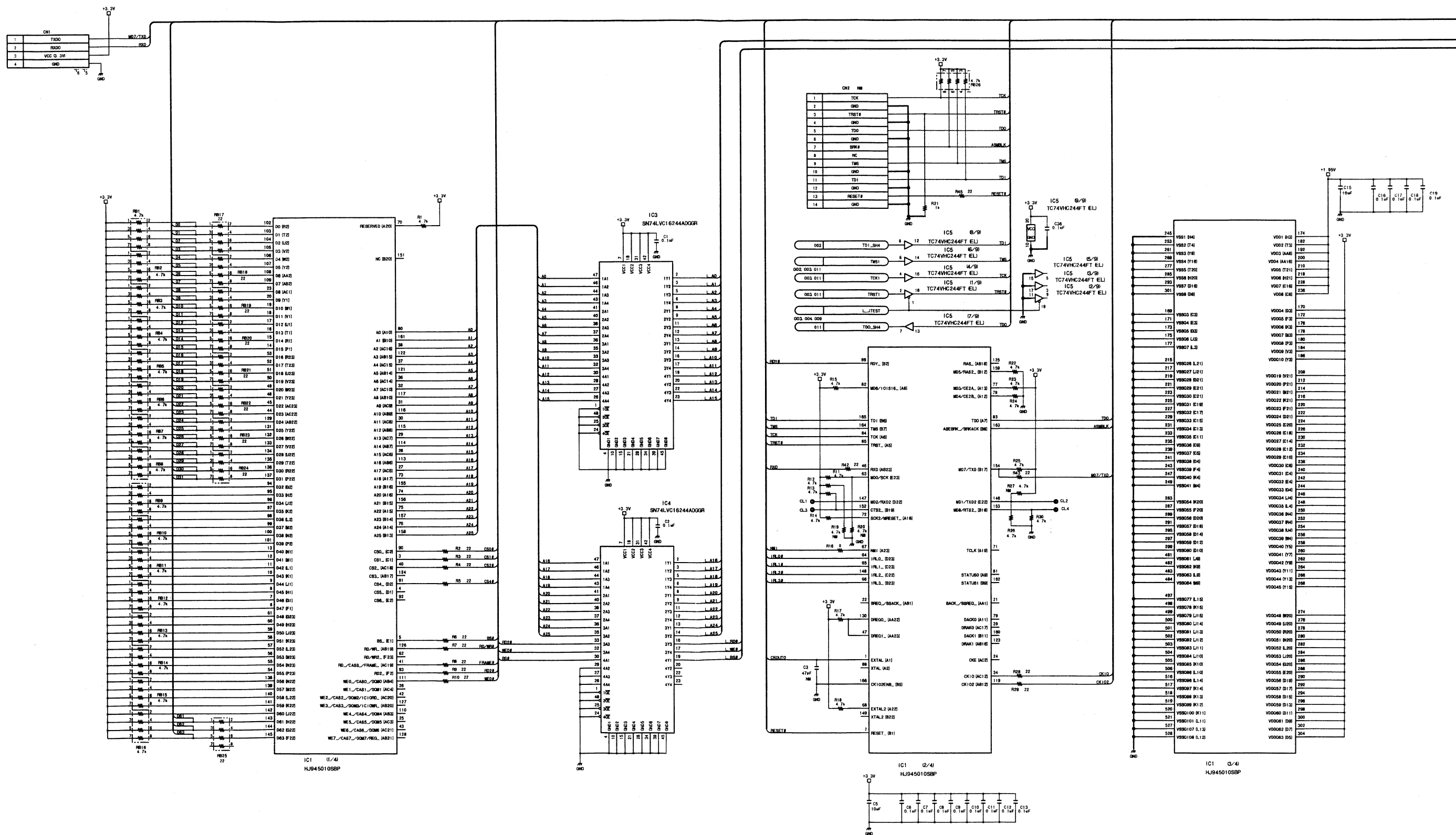
SDRAM1

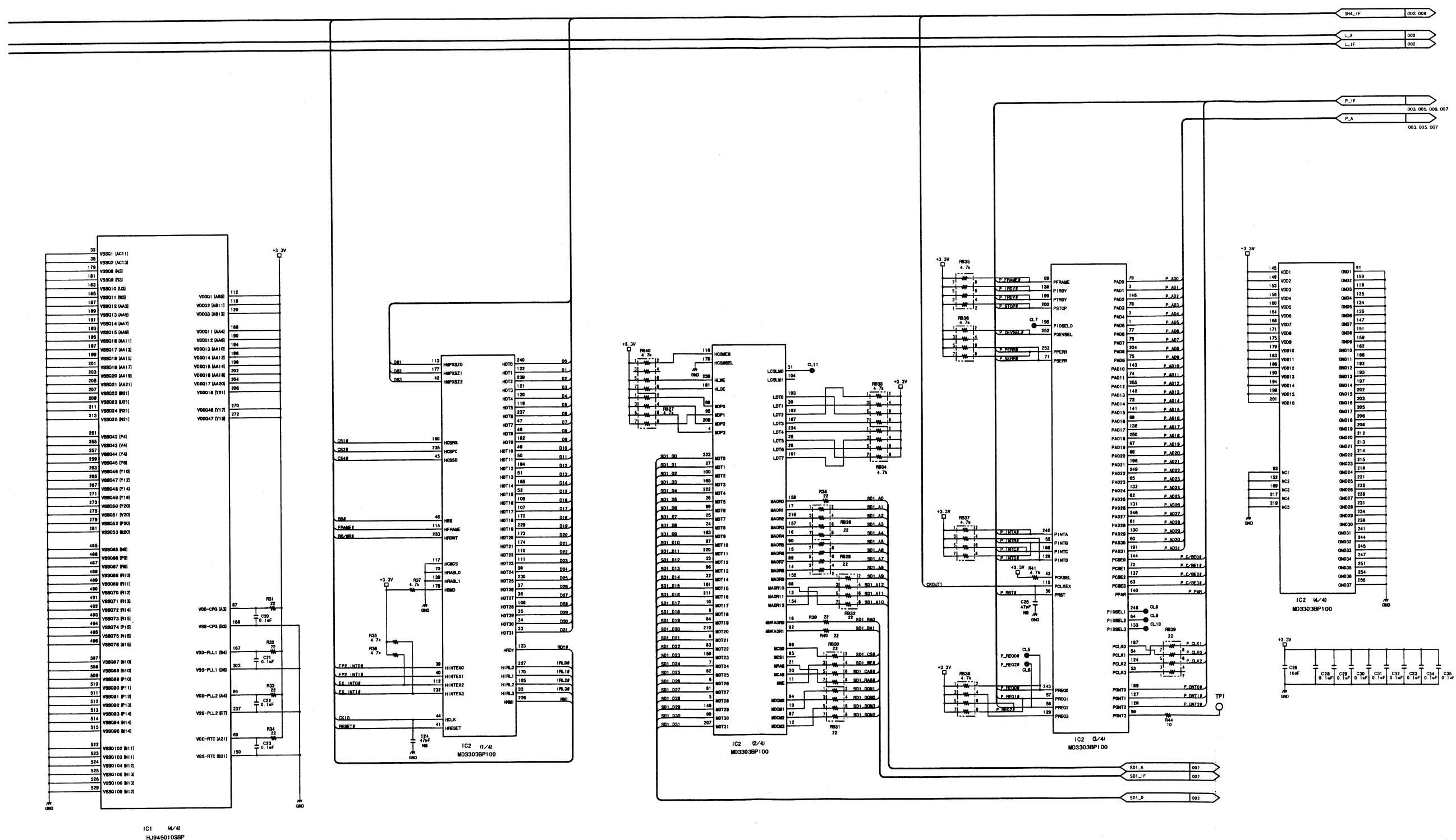


Network interface
VN-13 (6/7)
BOARD NO. 1-687-221-12
LOT NO. 451-484 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_12Q_6

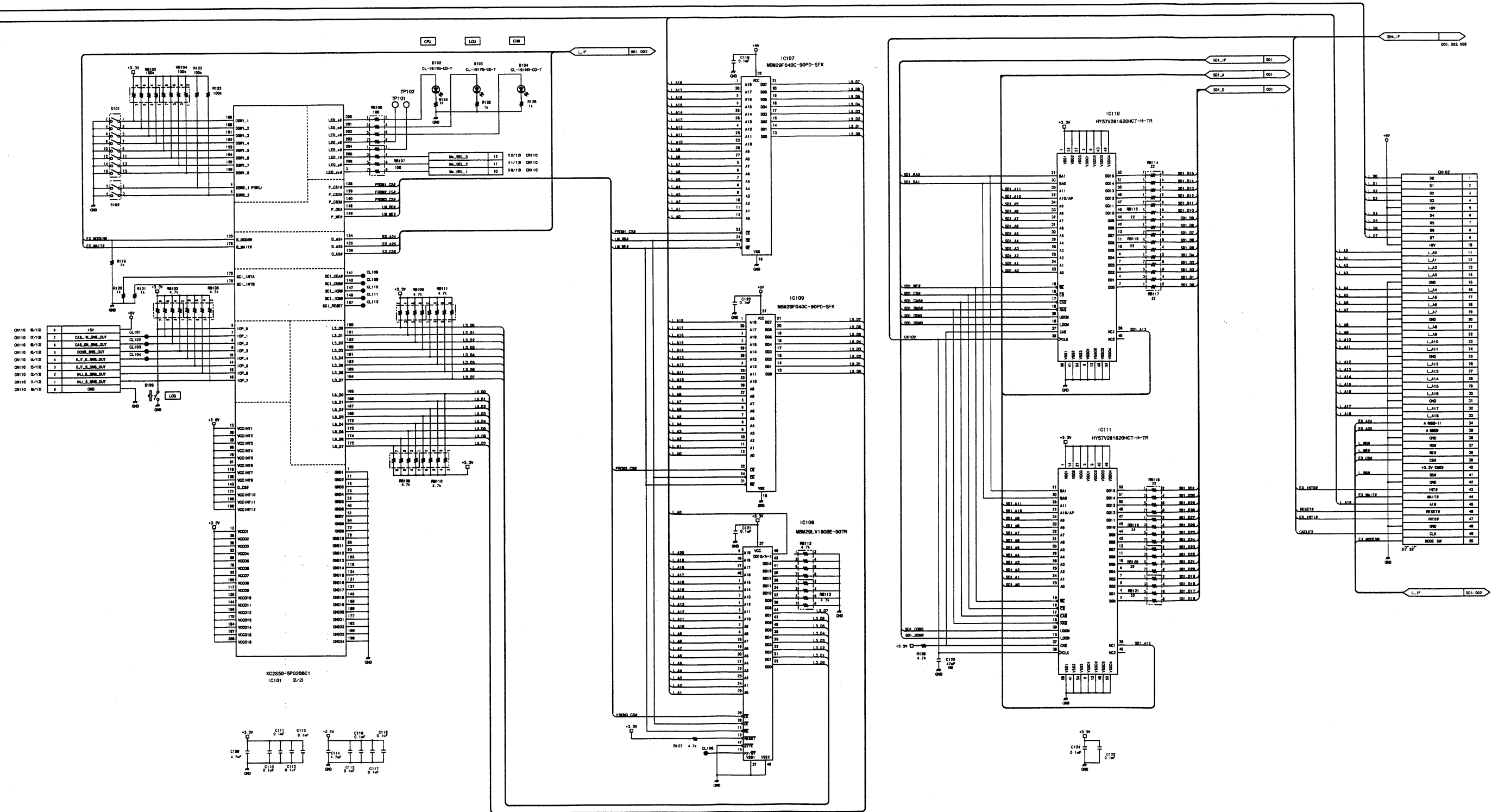


Network interface
VN-13 (7/7)
BOARD NO. 1-687-221-12
LOT NO. 451-484 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_12Q_7





Network interface
VN-13 (1/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_1



Network interface
VN-13 (2/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_2

1

07/148	70	SS_P10_RBT1
07/148	71	SS_P10_RBT0
07/148	72	SS_RBT1

03/148	103	RESERVE
04/148	104	RESERVE
05/148	105	RESERVE
06/148	106	RESERVE
07/148	107	RESERVE
08/148	108	RESERVE

0/148	3	HIF_ENC_Y0X
0/148	4	HIF_ENC_Y0Y
0/148	5	HIF_ENC_Y1X
0/148	6	HIF_ENC_Y1Y
0/148	7	HIF_ENC_Y2X
0/148	8	HIF_ENC_Y2Y
0/148	9	HIF_ENC_Y3X
0/148	10	HIF_ENC_Y3Y
0/148	11	HIF_ENC_Y4X
0/148	12	HIF_ENC_Y4Y
0/148	13	HIF_ENC_Y5X
0/148	14	HIF_ENC_Y5Y
0/148	15	HIF_ENC_Y6X
0/148	16	HIF_ENC_Y6Y
0/148	17	HIF_ENC_Y7X
0/148	18	HIF_ENC_Y7Y

008/148	109	+2.5V
010/148	110	+2.5V
011/148	111	+2.5V
012/148	112	+2.5V
013/148	113	+2.5V
014/148	114	+2.5V

015/148	115	+3.4V
016/148	116	+3.4V
017/148	117	+3.4V
018/148	118	+3.4V
019/148	119	+3.4V
020/148	120	+3.4V
021/148	121	+3.4V
022/148	122	+3.4V

023/148	123	+6.2V
024/148	124	+6.2V
025/148	125	+6.2V
026/148	126	+6.2V
027/148	127	+6.2V
028/148	128	+6.2V

029/148	129	+15V
030/148	130	+15V
031/148	131	+15V
032/148	132	+15V

033/148	133	-15V
034/148	134	-15V
035/148	135	-15V
036/148	136	-15V

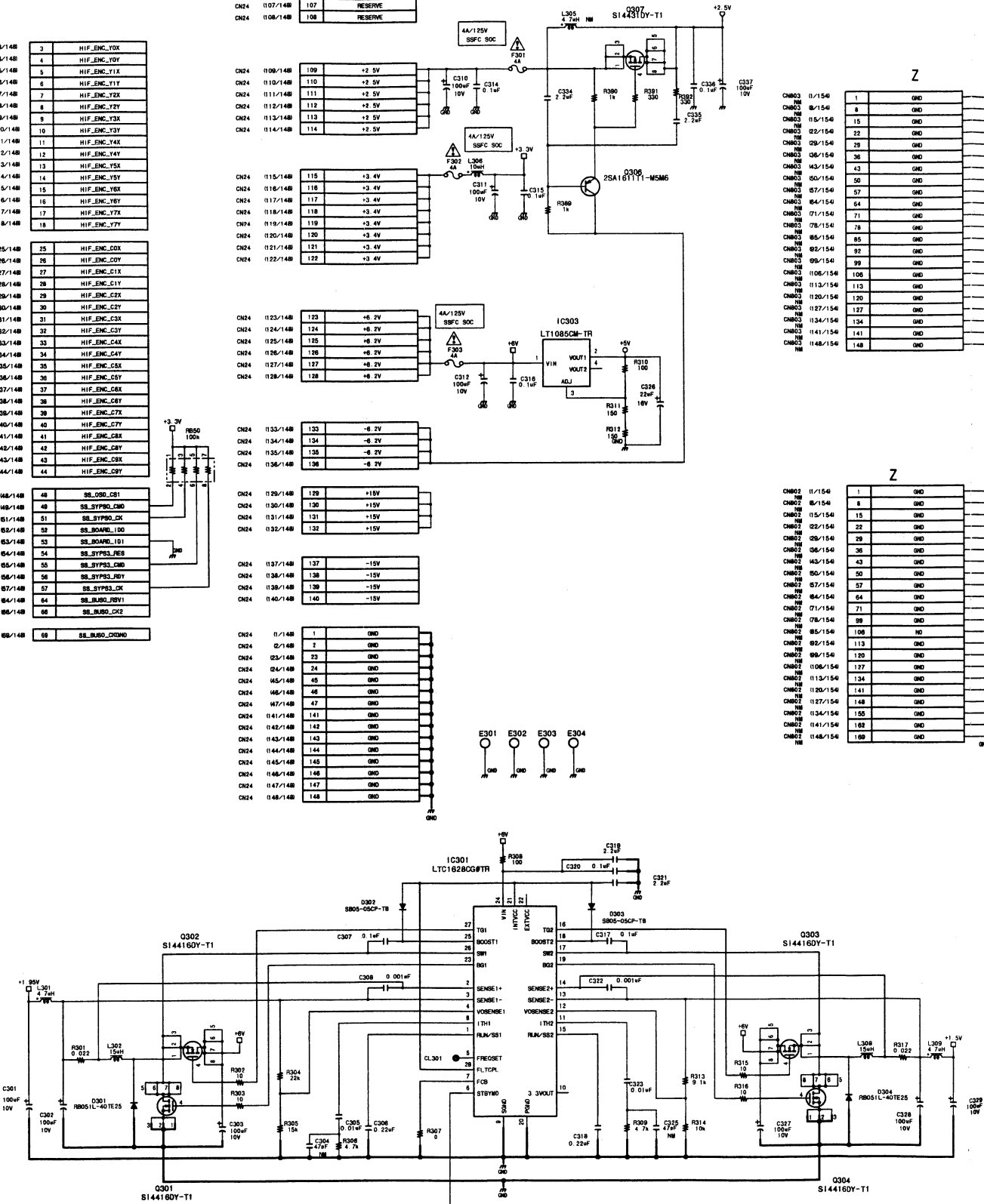
0/148	1	0V
0/148	2	0V
0/148	3	0V
0/148	4	0V
0/148	5	0V
0/148	6	0V
0/148	7	0V
0/148	8	0V
0/148	9	0V
0/148	10	0V
0/148	11	0V
0/148	12	0V
0/148	13	0V
0/148	14	0V
0/148	15	0V
0/148	16	0V
0/148	17	0V
0/148	18	0V

2

3

4

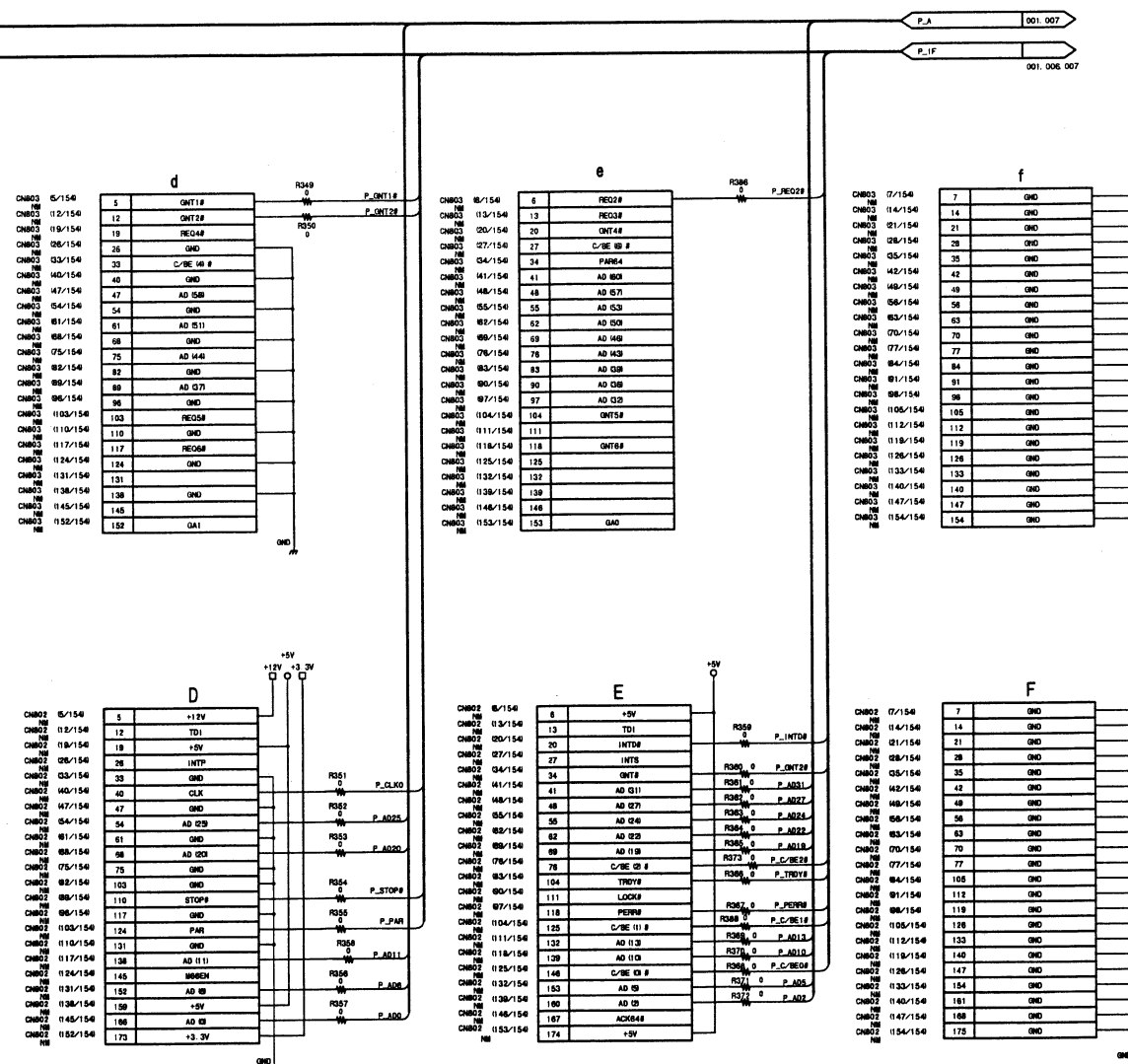
5



1-334 (a)

1-334 (a)

HDW series, DVW series, MSW series



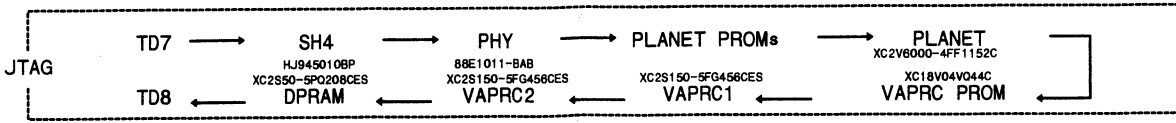
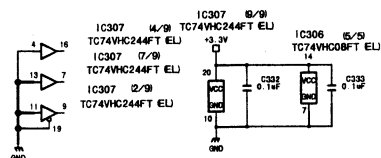
CH003	6/154	5	QNT18	R349	P_QNT18
CH003	12/154	12	QNT28	R350	P_QNT28
CH003	19/154	19	QNT38	R351	P_QNT38
CH003	26/154	26	QNT48	R352	P_QNT48
CH003	33/154	33	QNT58	R353	P_QNT58
CH003	40/154	40	QNT68	R354	P_QNT68
CH003	47/154	47	QNT78	R355	P_QNT78
CH003	54/154	54	QNT88	R356	P_QNT88
CH003	61/154	61	QNT98	R357	P_QNT98
CH003	68/154	68	QNT108	R358	P_QNT108
CH003	75/154	75	QNT118	R359	P_QNT118
CH003	82/154	82	QNT128	R360	P_QNT128
CH003	89/154	89	QNT138	R361	P_QNT138
CH003	96/154	96	QNT148	R362	P_QNT148
CH003	103/154	103	QNT158	R363	P_QNT158
CH003	110/154	110	QNT168	R364	P_QNT168
CH003	117/154	117	QNT178	R365	P_QNT178
CH003	124/154	124	QNT188	R366	P_QNT188
CH003	131/154	131	QNT198	R367	P_QNT198
CH003	138/154	138	QNT208	R368	P_QNT208
CH003	145/154	145	QNT218	R369	P_QNT218
CH003	152/154	152	QNT228	R370	P_QNT228

CH003	6/154	7	QNT238	R371	P_QNT238
CH003	14/154	14	QNT248	R372	P_QNT248
CH003	21/154	21	QNT258	R373	P_QNT258
CH003	28/154	28	QNT268	R374	P_QNT268
CH003	35/154	35	QNT278	R375	P_QNT278
CH003	42/154	42	QNT288	R376	P_QNT288
CH003	49/154	49	QNT298	R377	P_QNT298
CH003	56/154	56	QNT308	R378	P_QNT308
CH003	63/154	63	QNT318	R379	P_QNT318
CH003	70/154	70	QNT328	R380	P_QNT328
CH003	77/154	77	QNT338	R381	P_QNT338
CH003	84/154	84	QNT348	R382	P_QNT348
CH003	91/154	91	QNT358	R383	P_QNT358
CH003	98/154	98	QNT368	R384	P_QNT368
CH003	105/154	105	QNT378	R385	P_QNT378
CH003	112/154	112	QNT388	R386	P_QNT388
CH003	119/154	119	QNT398	R387	P_QNT398
CH003	126/154	126	QNT408	R388	P_QNT408
CH003	133/154	133	QNT418	R389	P_QNT418
CH003	140/154	140	QNT428	R390	P_QNT428
CH003	147/154	147	QNT438	R391	P_QNT438
CH003	154/154	154	QNT448	R392	P_QNT448

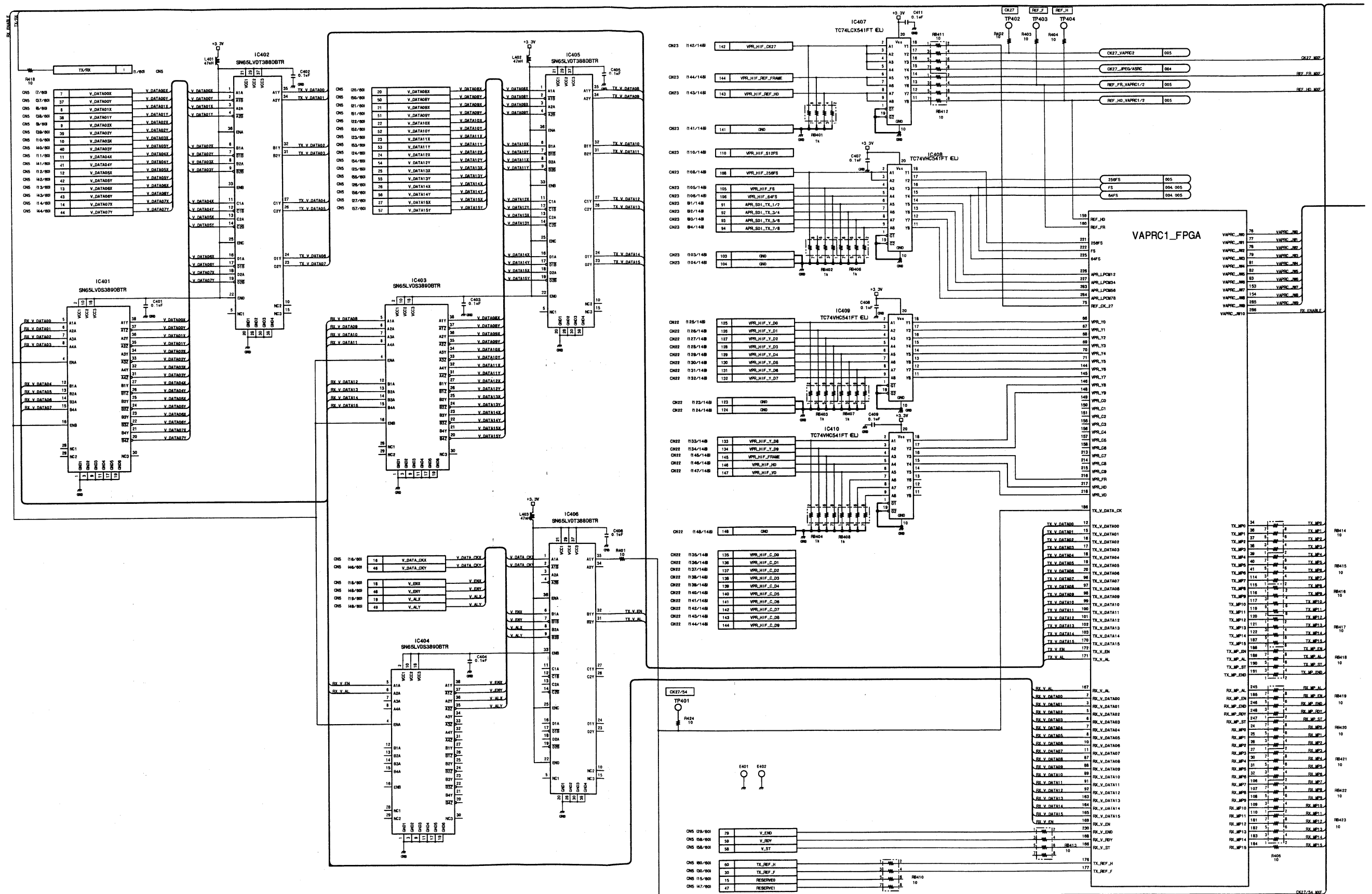
CH003	6/154	71	QNT458	R393	P_QNT458
CH003	78/154	78	QNT468	R394	P_QNT468
CH003	85/154	85	QNT478	R395	P_QNT478
CH003	92/154	92	QNT488	R396	P_QNT488
CH003	99/154	99	QNT498	R397	P_QNT498
CH003	106/154	106	QNT508	R398	P_QNT508
CH003	113/154	113	QNT518	R399	P_QNT518
CH003	120/154	120	QNT528	R400	P_QNT528
CH003	127/154	127	QNT538	R401	P_QNT538
CH003	134/154	134	QNT548	R402	P_QNT548
CH003	141/154	141	QNT558	R403	P_QNT558
CH003	148/154	148	QNT568	R404	P_QNT568
CH003	155/154	155	QNT578	R405	P_QNT578

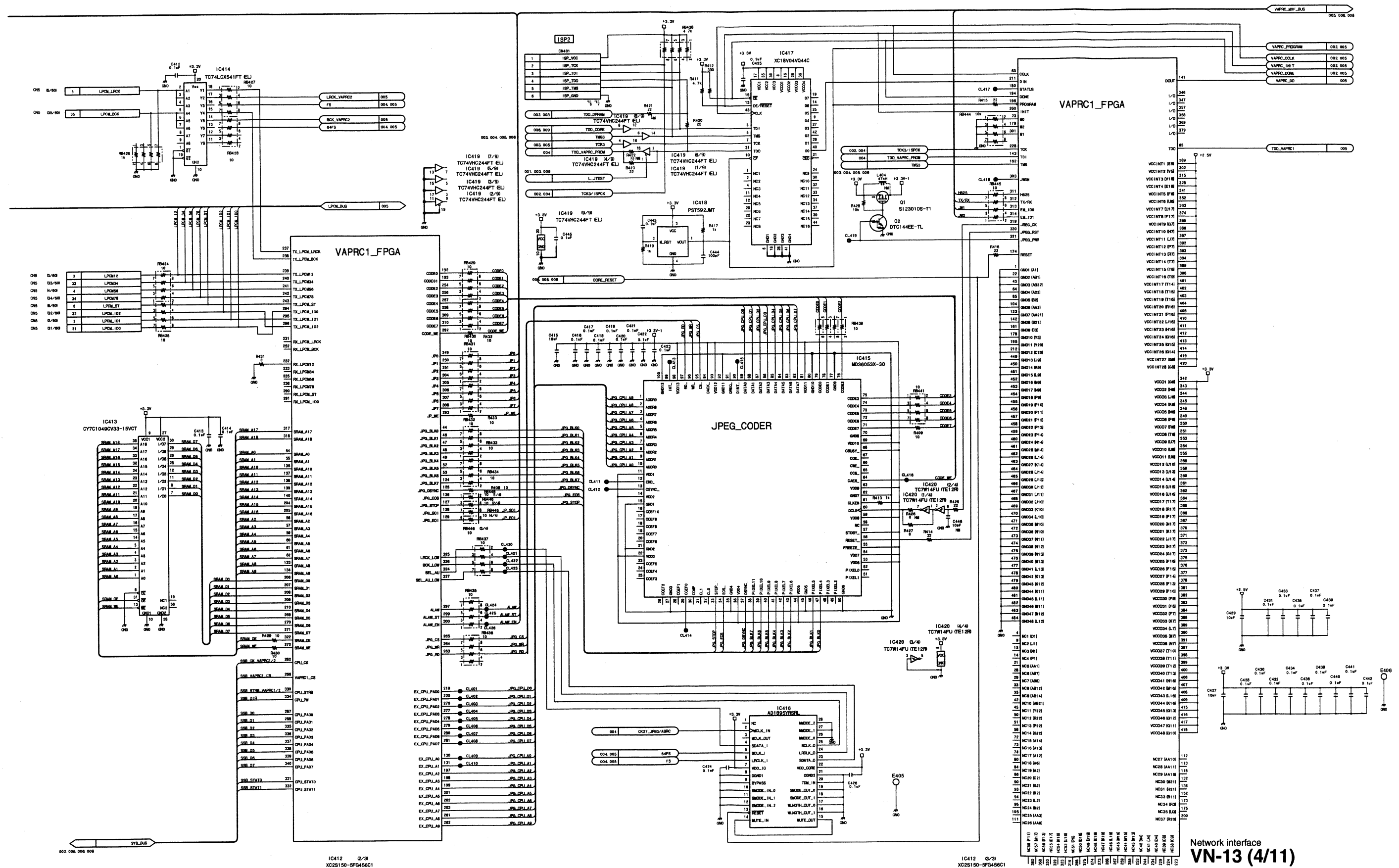
CH003	6/154	72	QNT588	R406	P_QNT588
CH003	79/154	79	QNT598	R407	P_QNT598
CH003	86/154	86	QNT608	R408	P_QNT608
CH003	93/154	93	QNT618	R409	P_QNT618
CH003	100/154	100	QNT628	R410	P_QNT628
CH003	107/154	107	QNT638	R411	P_QNT638
CH003	114/154	114	QNT648	R412	P_QNT648
CH003	121/154	121	QNT658	R413	P_QNT658
CH003	128/154	128	QNT668	R414	P_QNT668
CH003	135/154	135	QNT678	R415	P_QNT678
CH003	142/154	142	QNT688	R416	P_QNT688
CH003	149/154	149	QNT698	R417	P_QNT698
CH003	156/154	156	QNT708	R418	P_QNT708

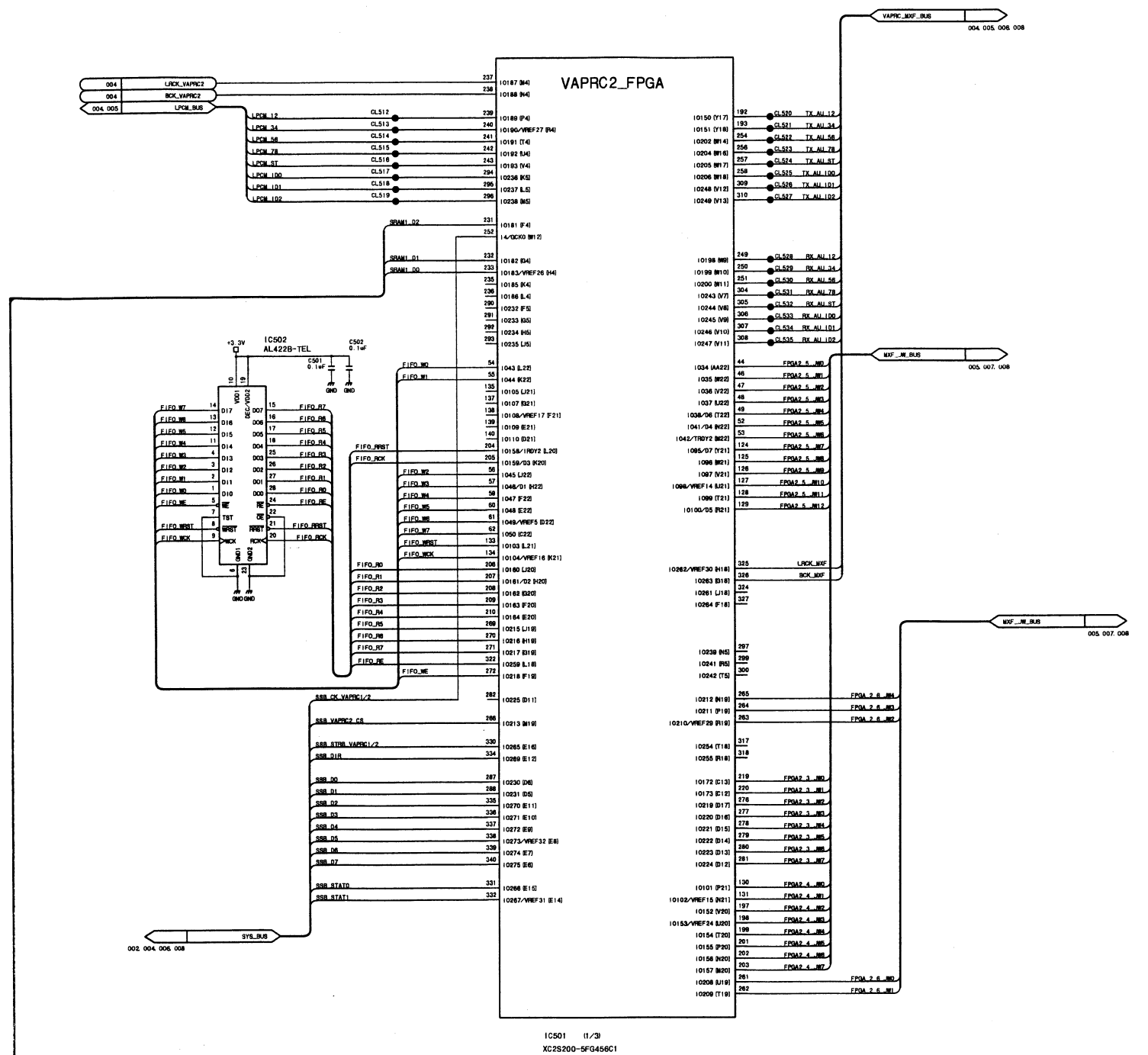
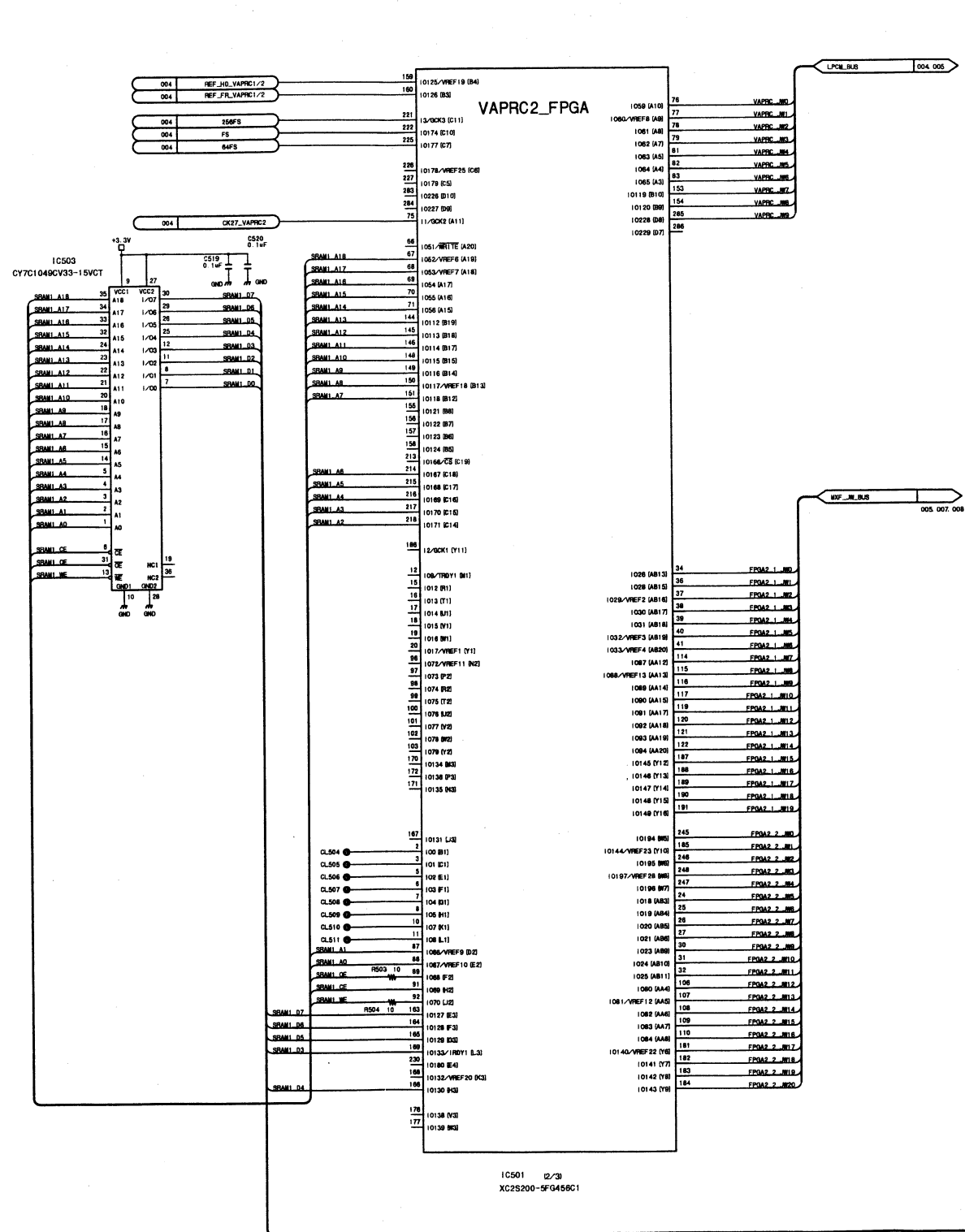
CH003	6/154	73	QNT718	R419	P_QNT718
CH003	80/154	80	QNT728	R420	P_QNT728
CH003	87/154	87	QNT738	R421	P_QNT738
CH003	94/154	94	QNT748	R422	P_QNT748
CH003	101/154	101	QNT758	R423	P_QNT758
CH003	108/154	108	QNT768	R424	P_QNT768
CH003	115/154	115	QNT778	R425	P_QNT778
CH003	122/154	122	QNT788	R426	P_QNT788
CH003	129/154	129	QNT798	R427	P_QNT798
CH003	136/154	136	QNT808	R428	P_QNT808
CH003	143/154	143	QNT818	R429	P_QNT818
CH003	150/154	150	QNT828	R430	P_QNT828

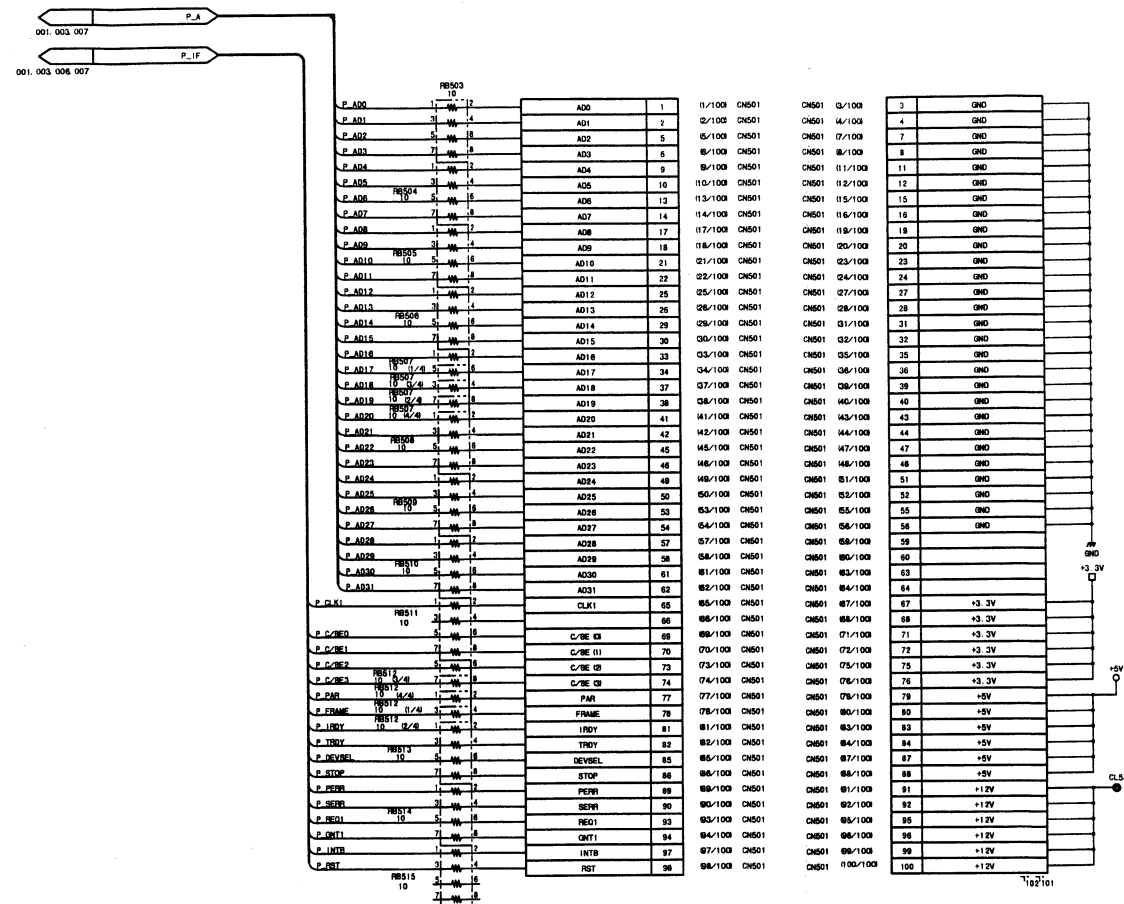
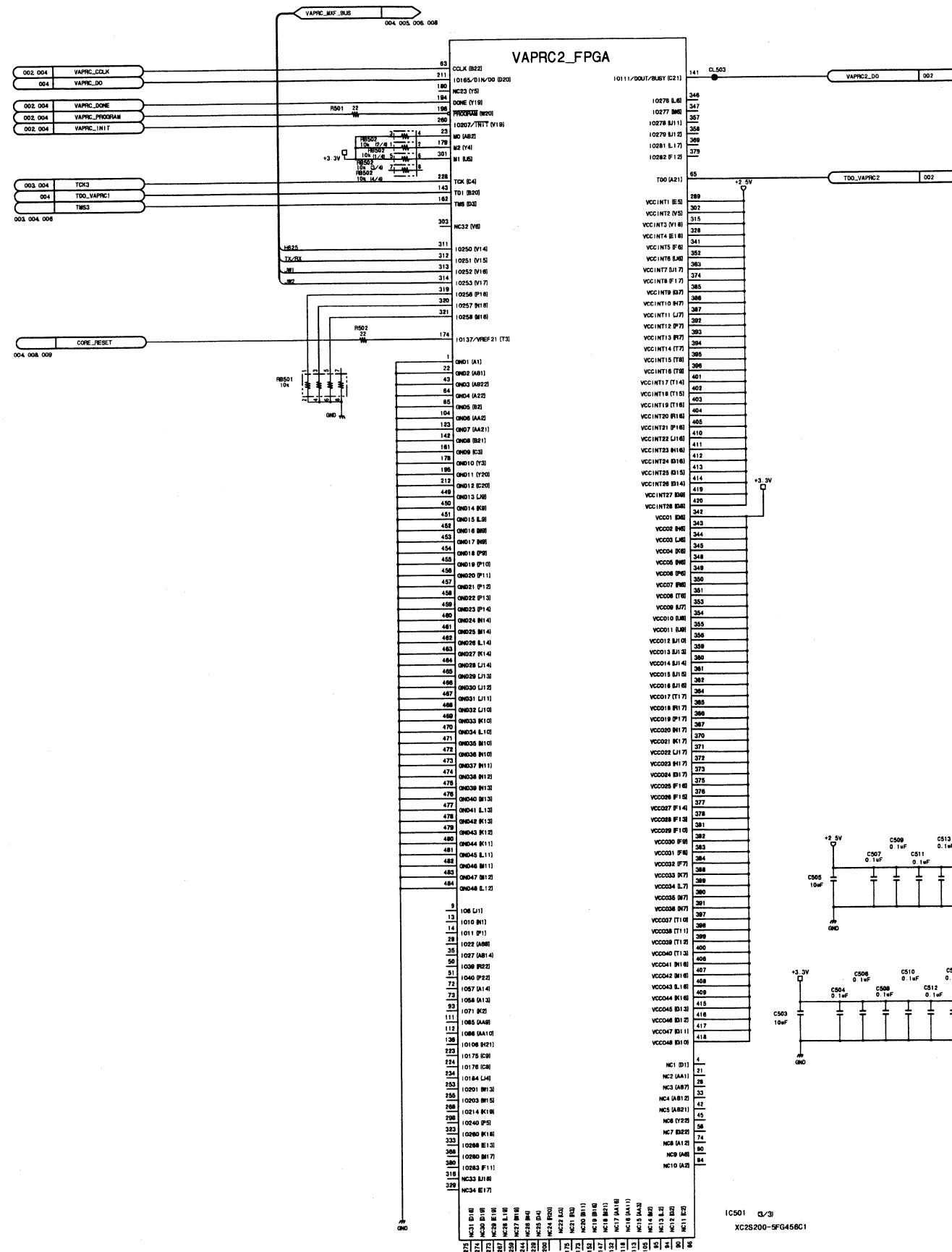


Network interface
VN-13 (3/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_3

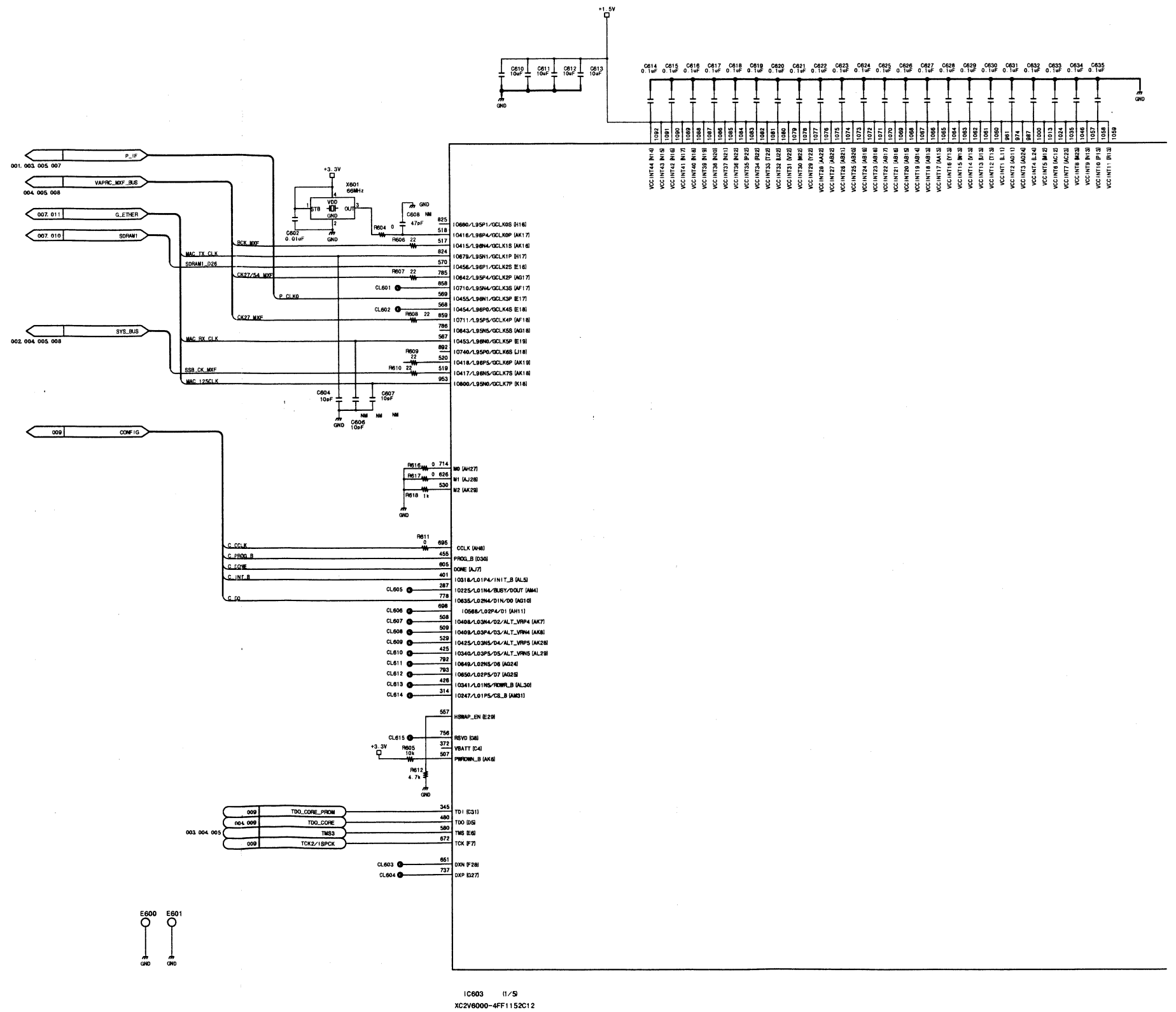


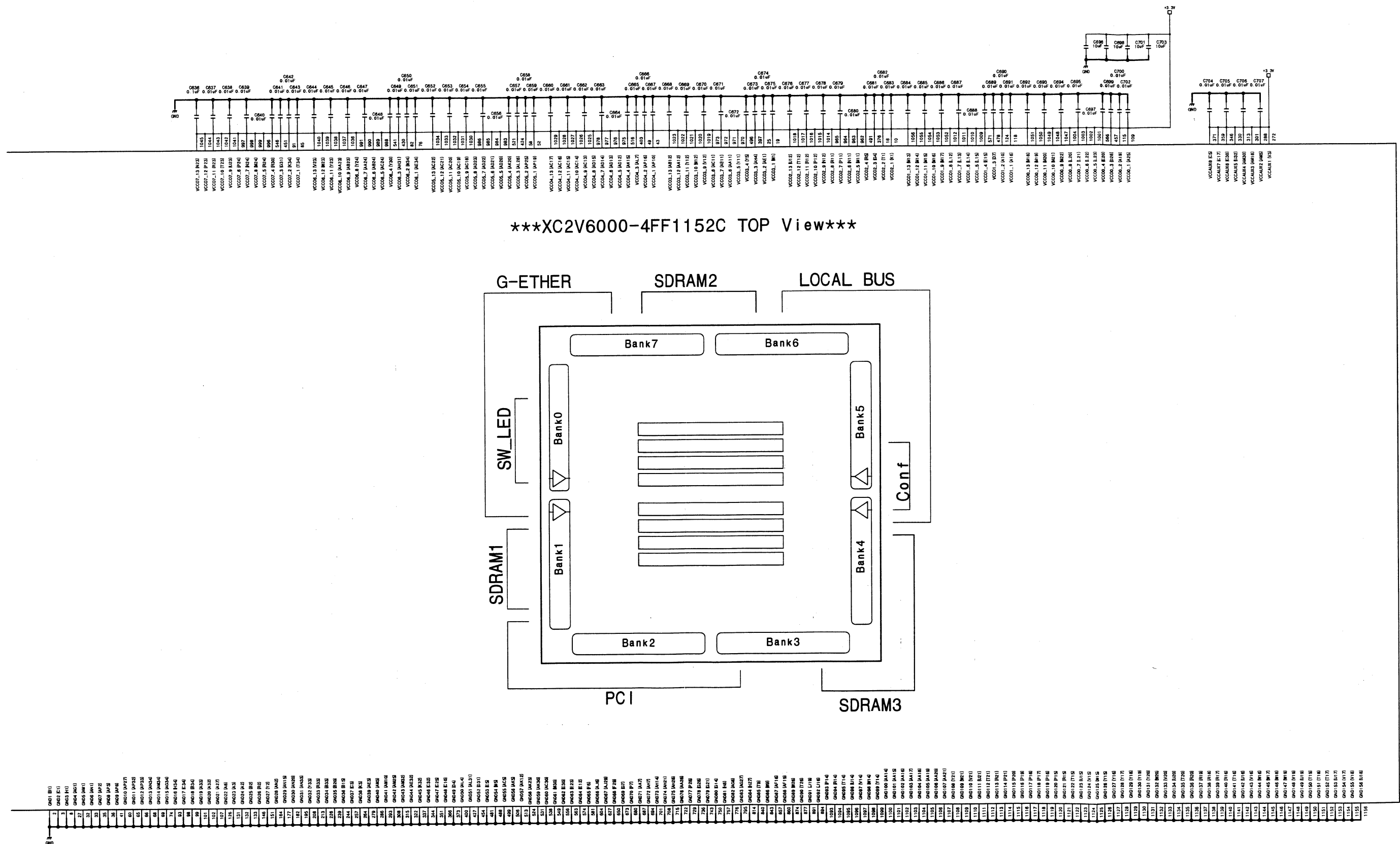


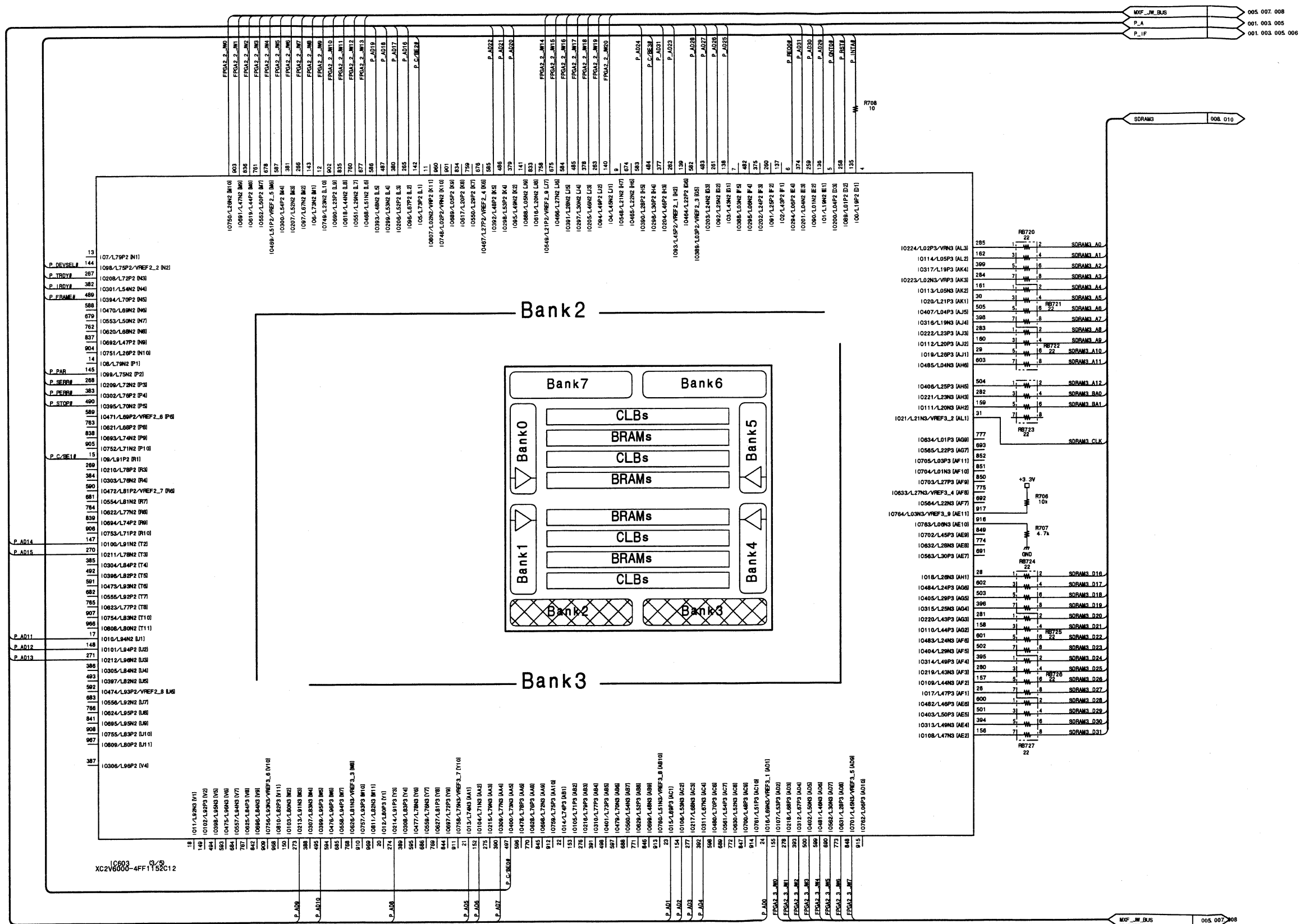




Network interface
VN-13 (5/11)
 BOARD NO. 1-687-221-11
 LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
 BCX-256_VN-13_102_5

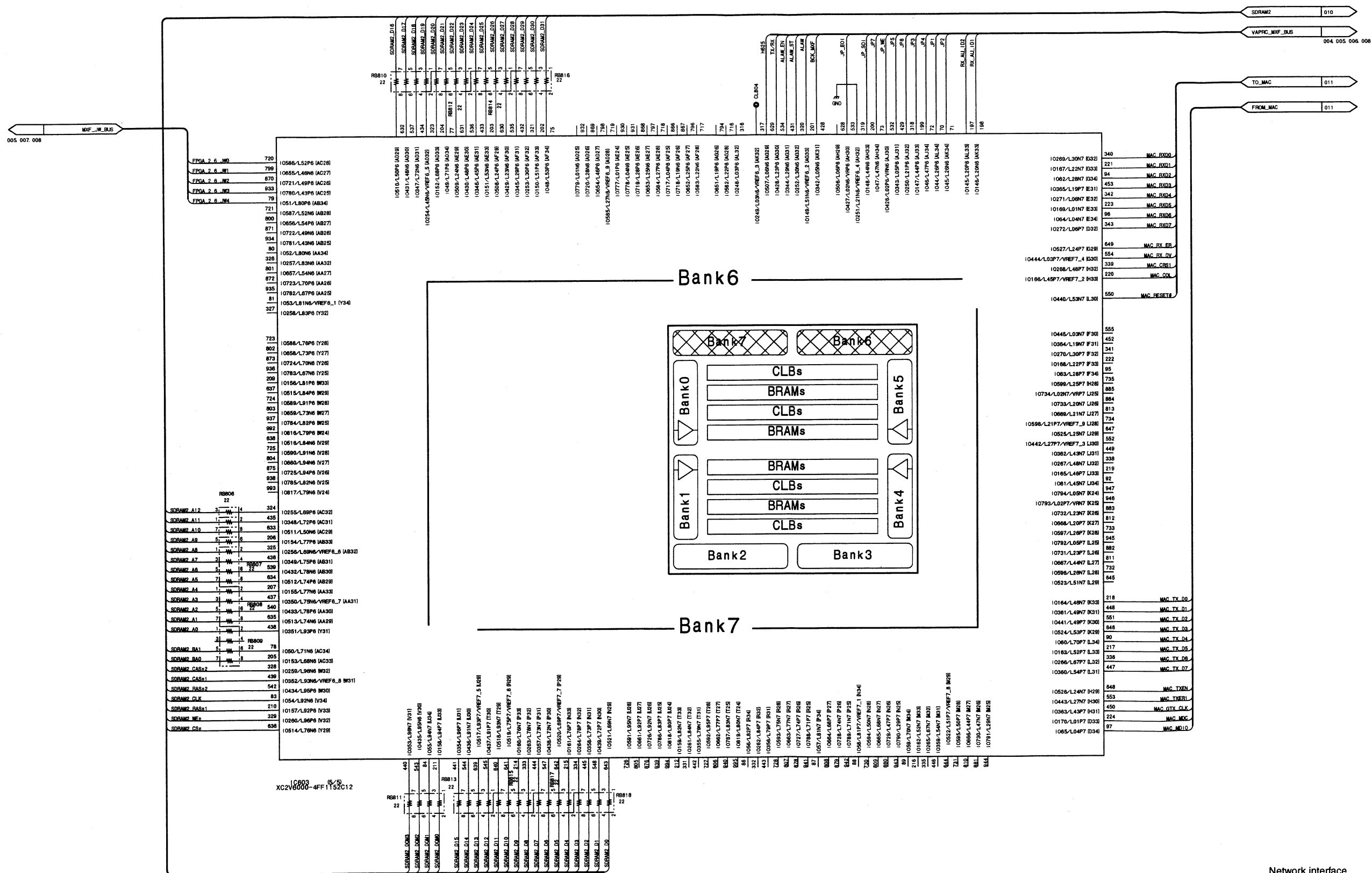




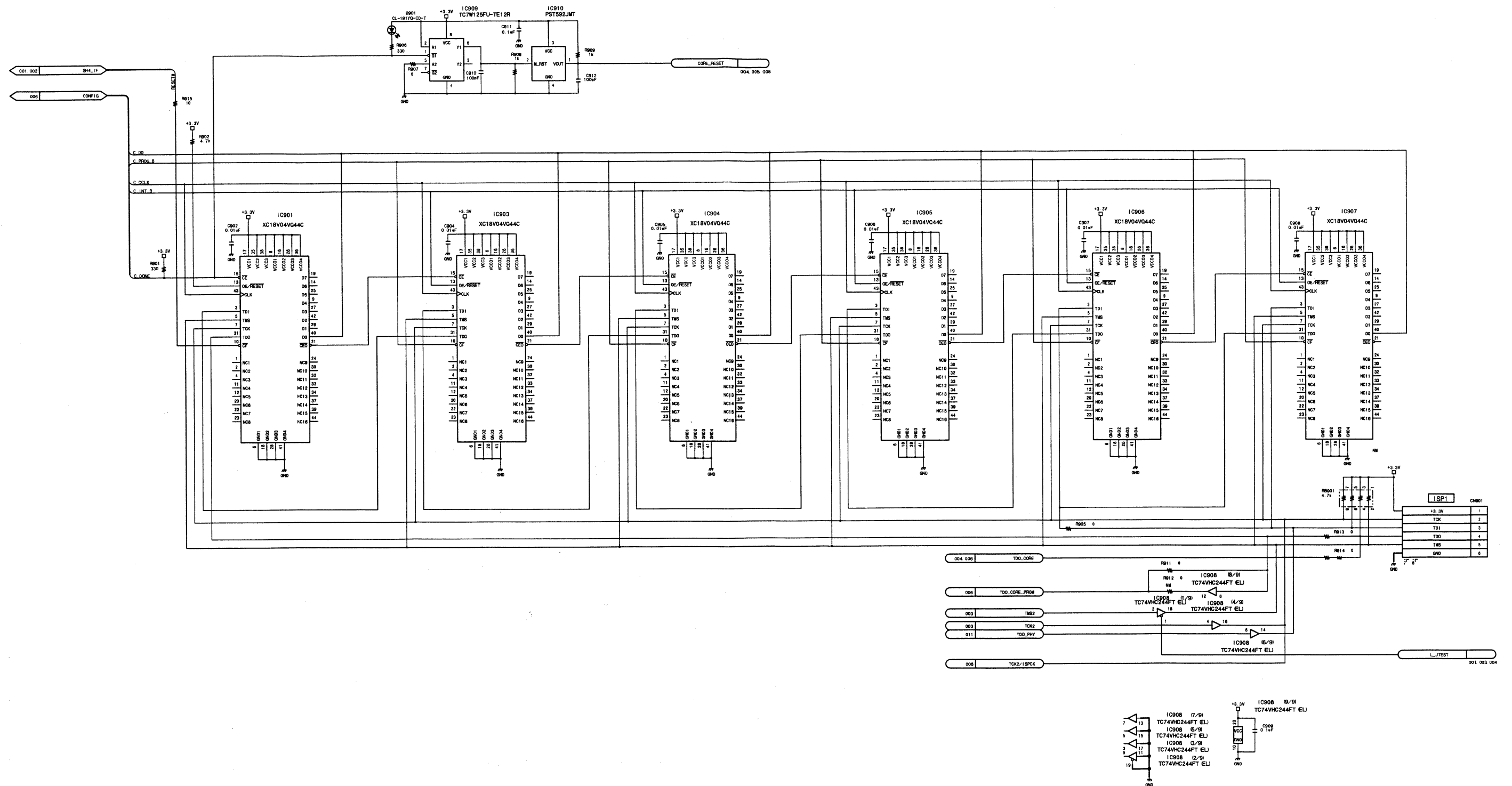


Network interface
VN-13 (7/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_7

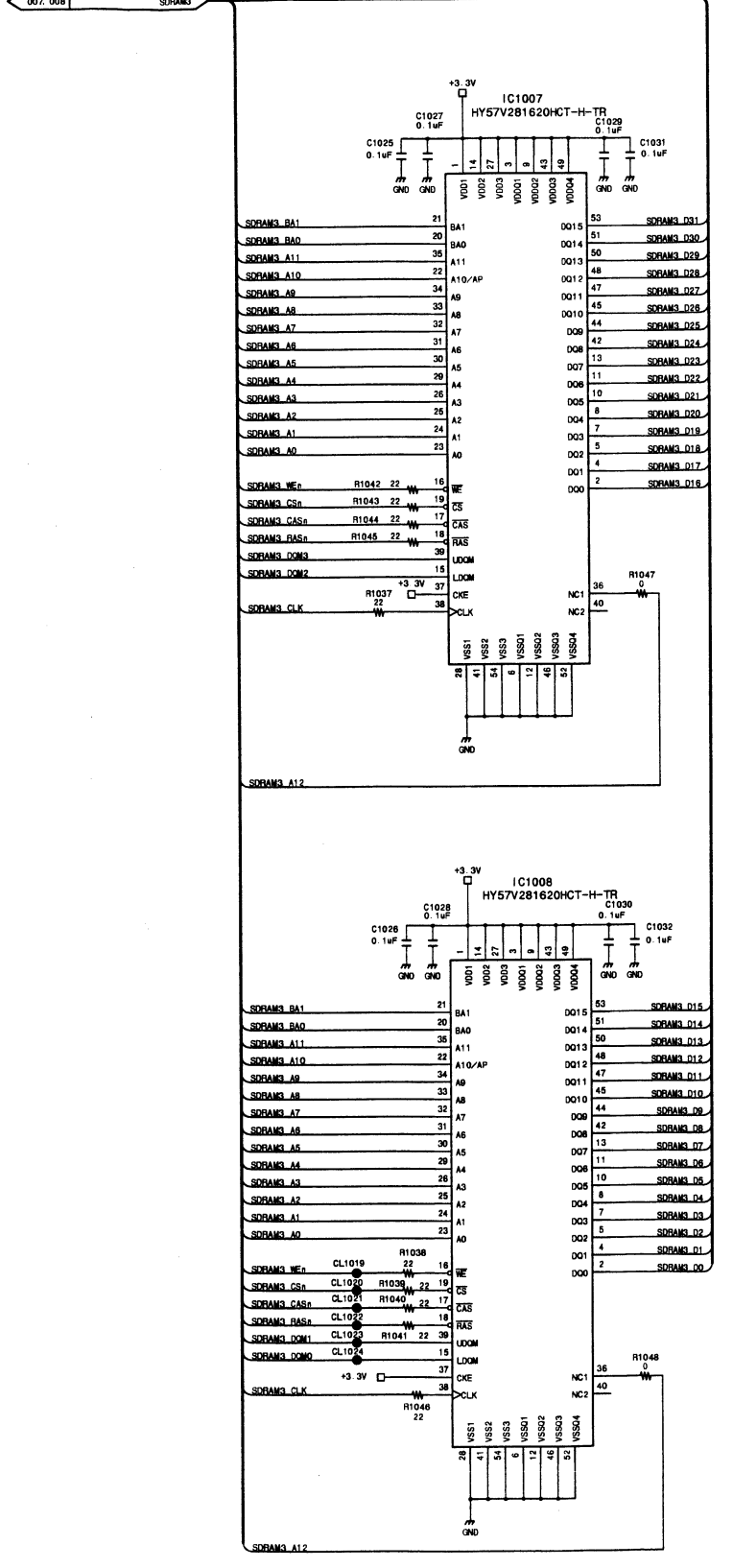
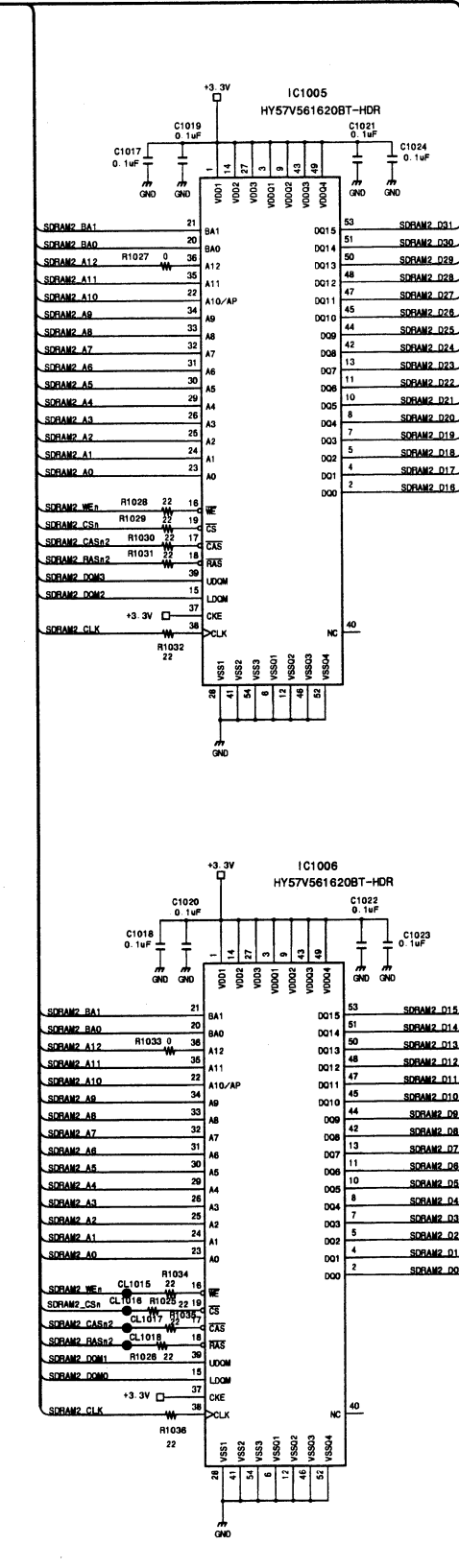
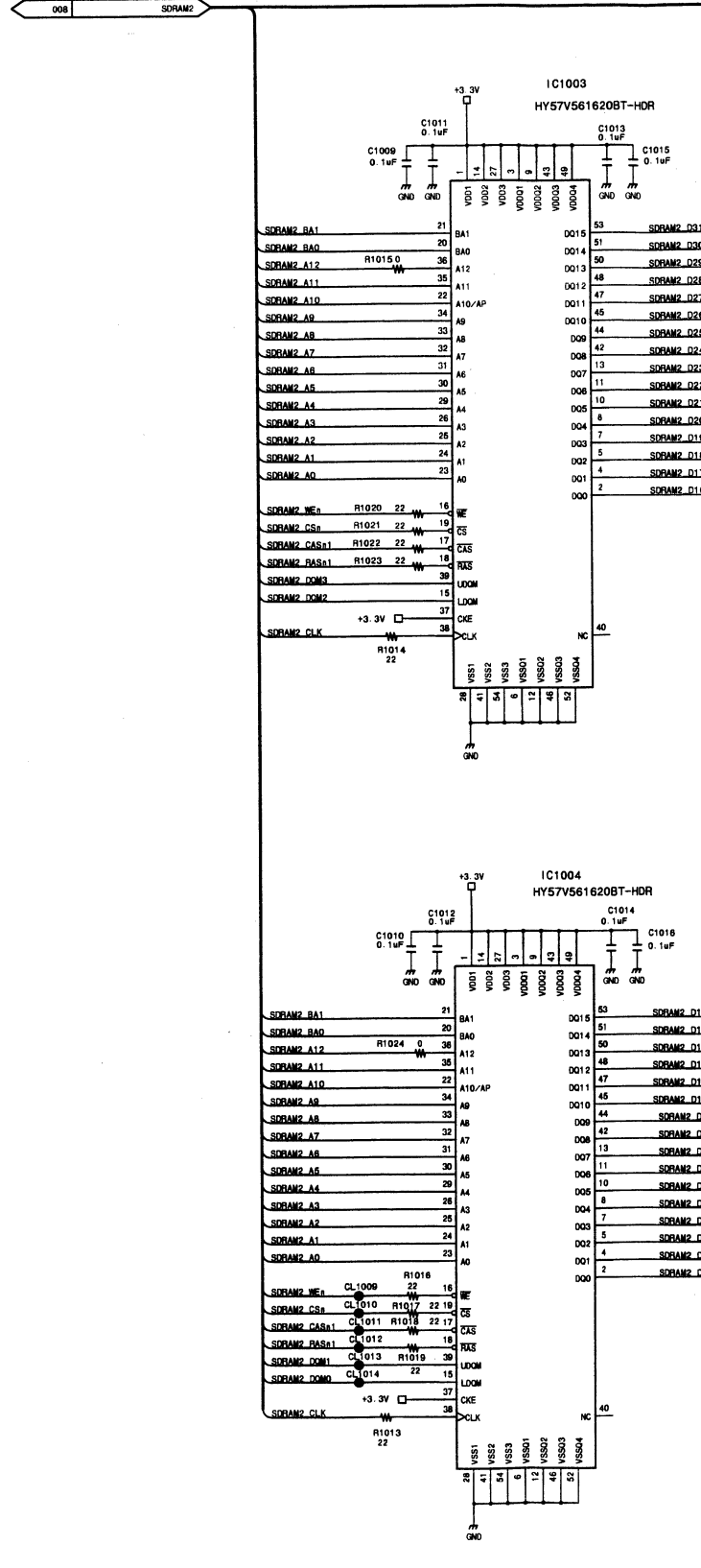
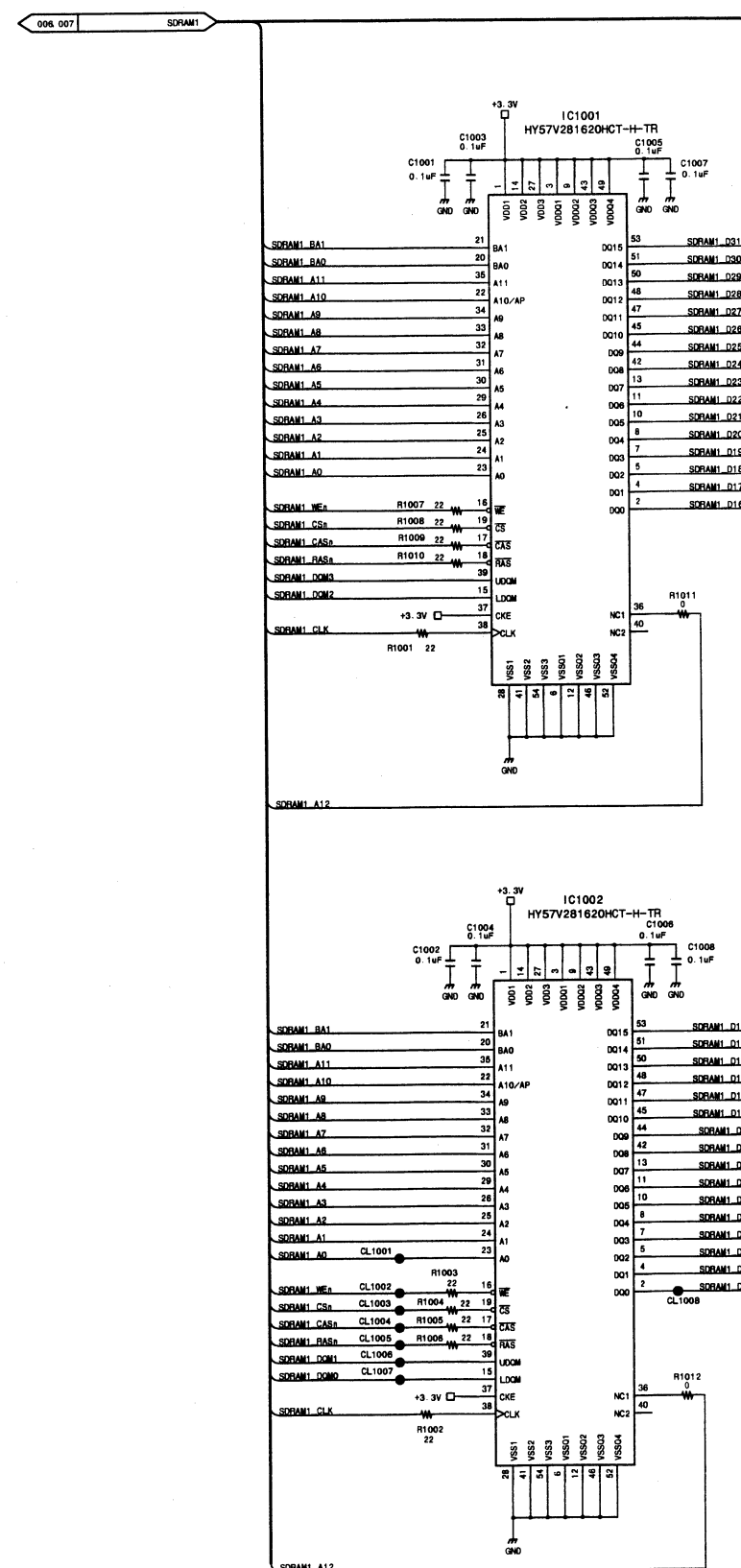




Network interface
VN-13 (8/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_8

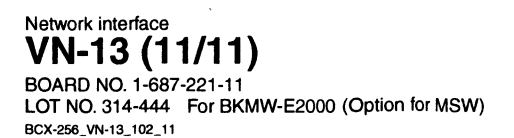


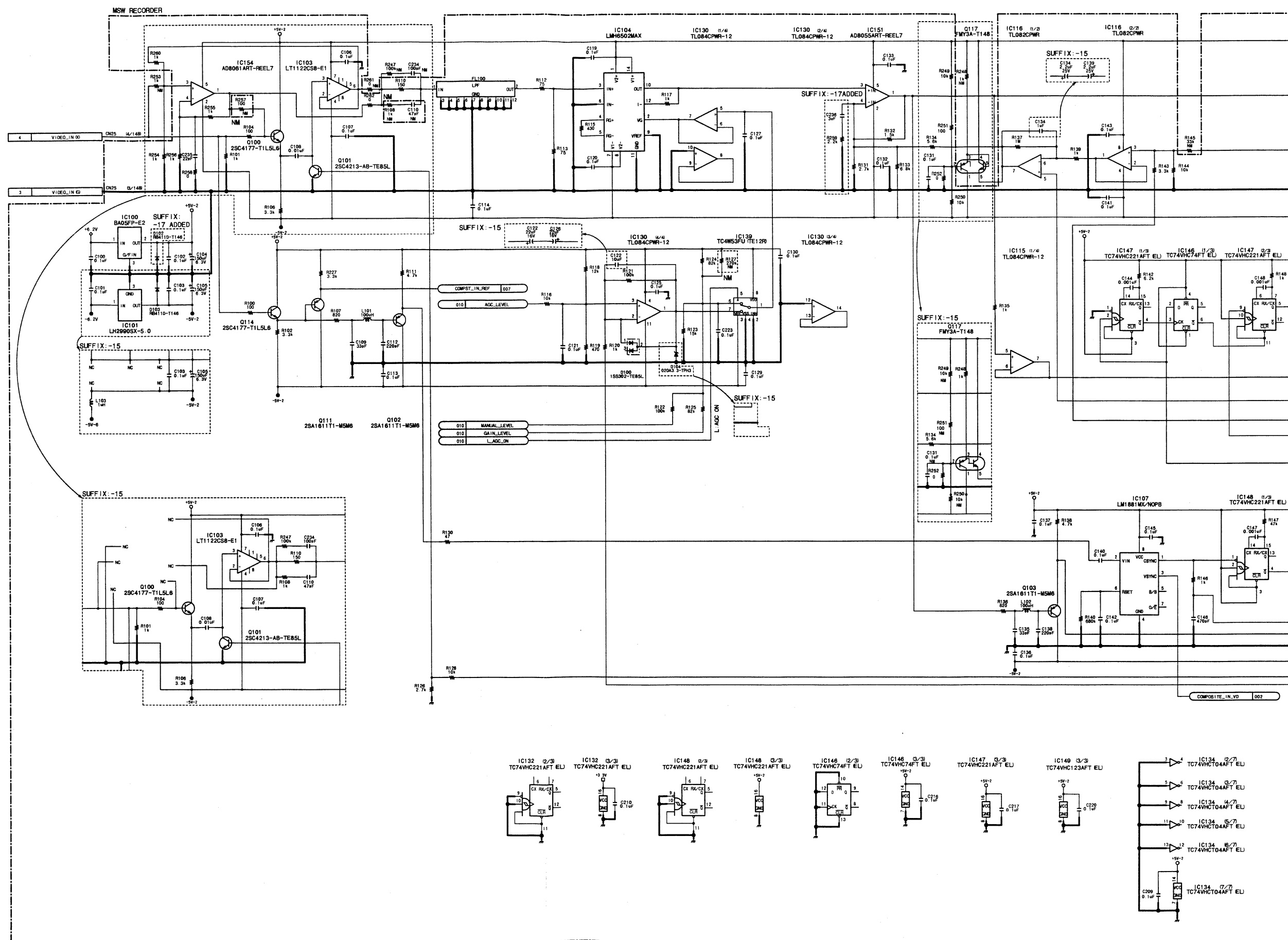
Network interface
VN-13 (9/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_9

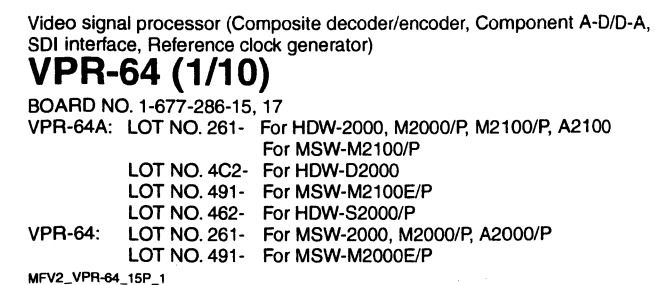


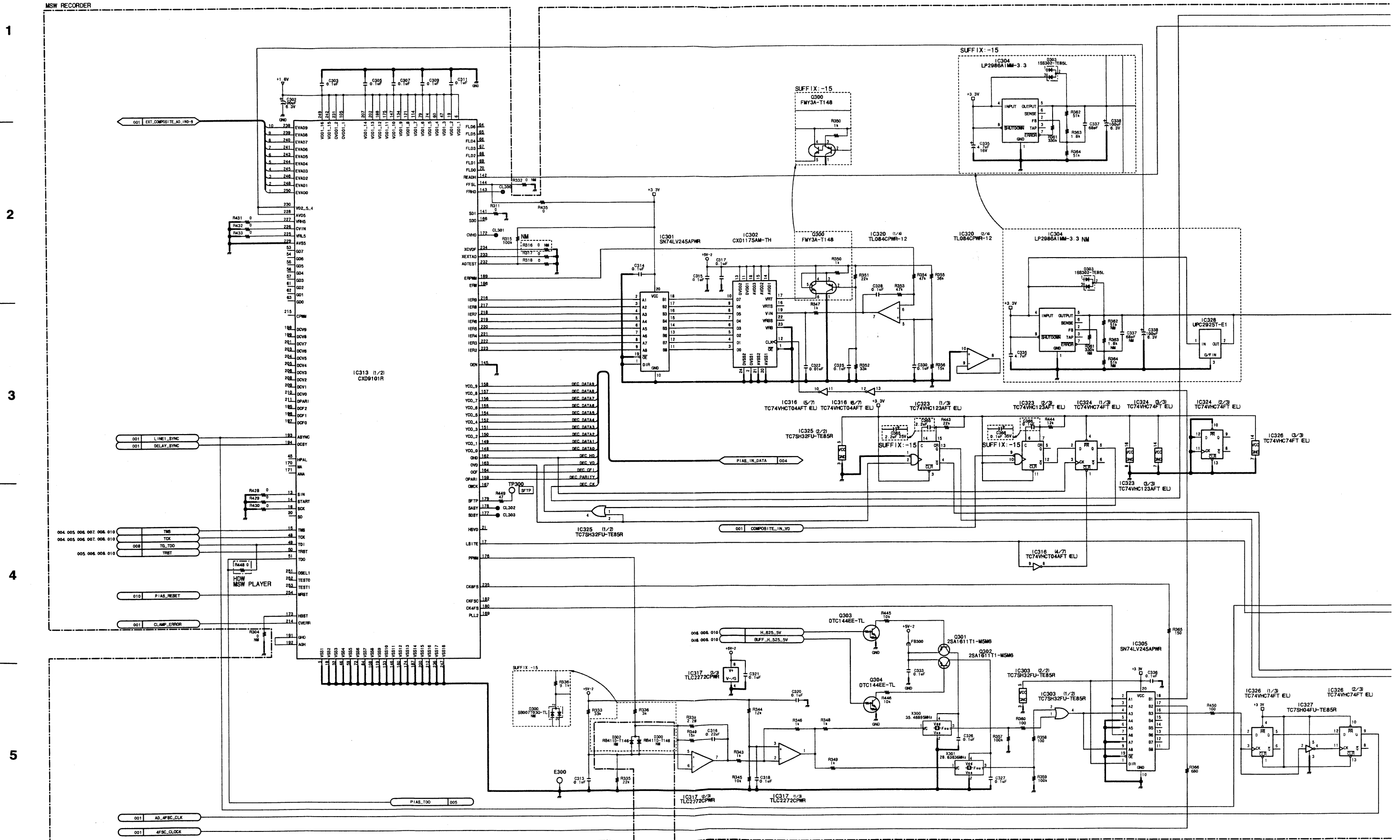
Network interface
VN-13 (10/11)
BOARD NO. 1-687-221-11
LOT NO. 314-444 For BKMW-E2000 (Option for MSW)
BCX-256_VN-13_102_10



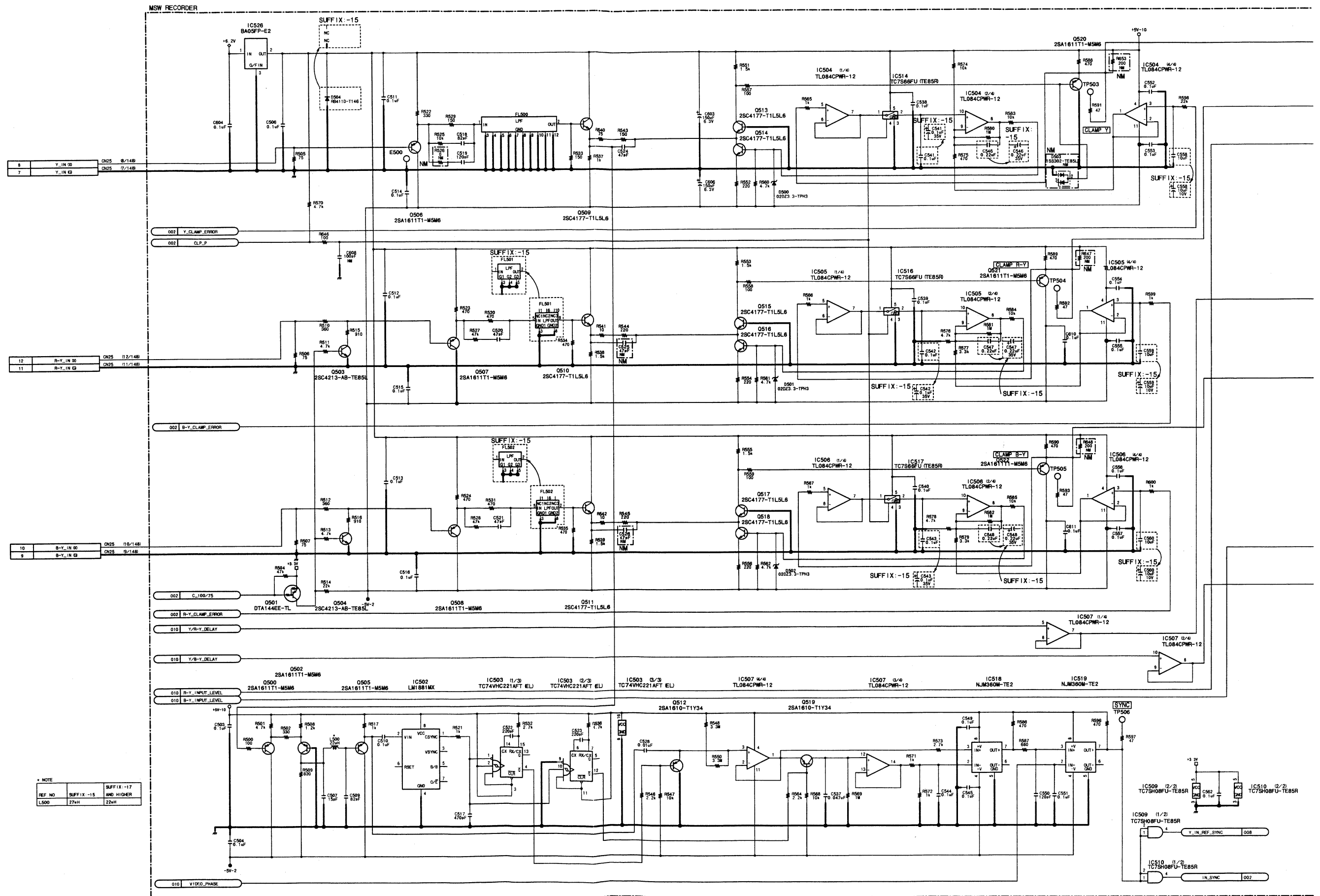


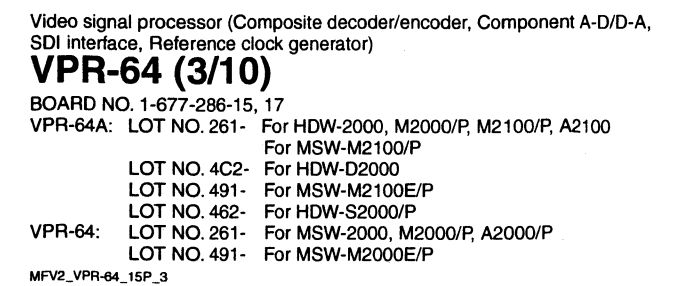


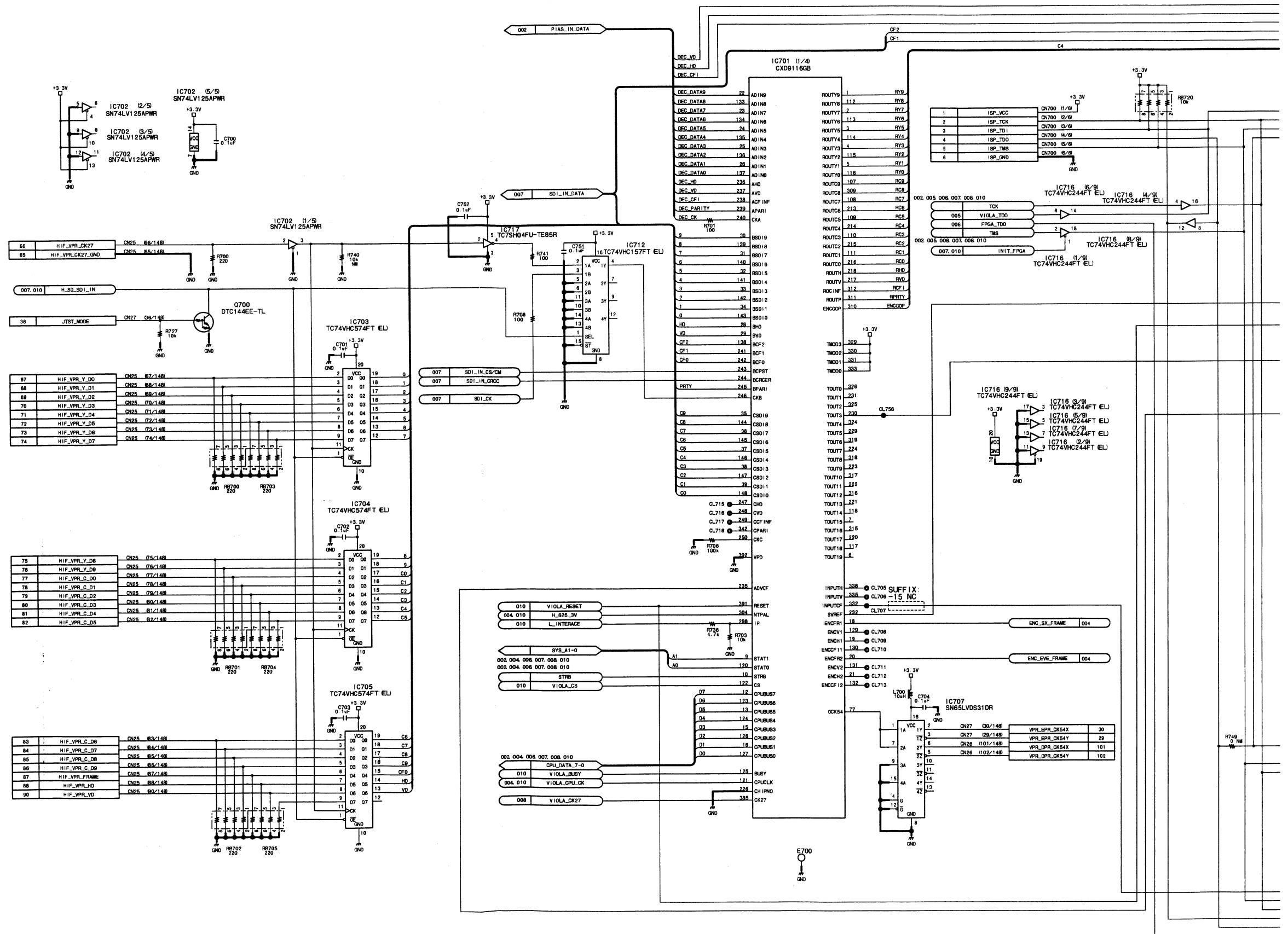


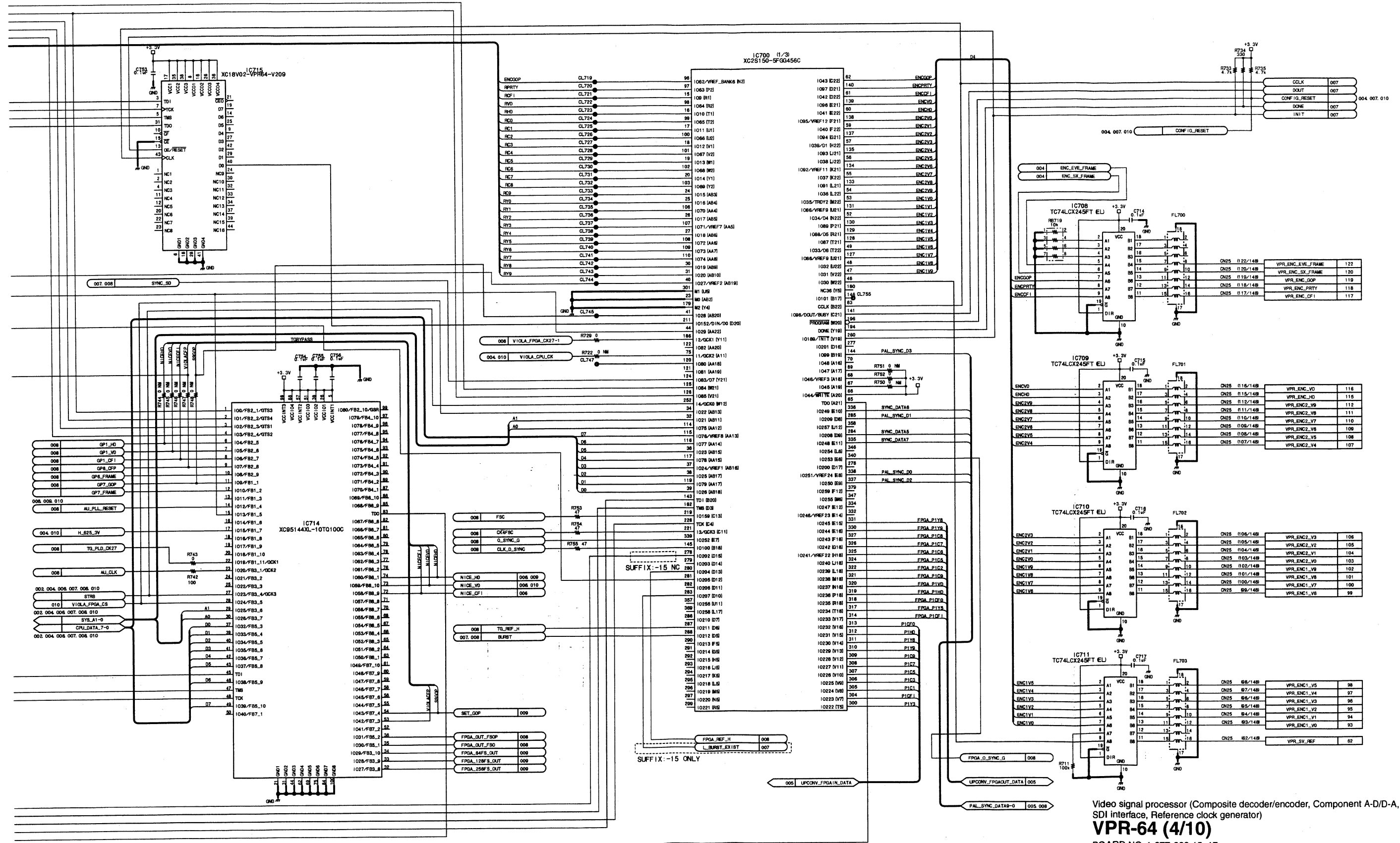












Video signal processor (Composite decoder/encoder, Component A/D-D/A, SDI interface, Reference clock generator)

VPR-64 (4/10)

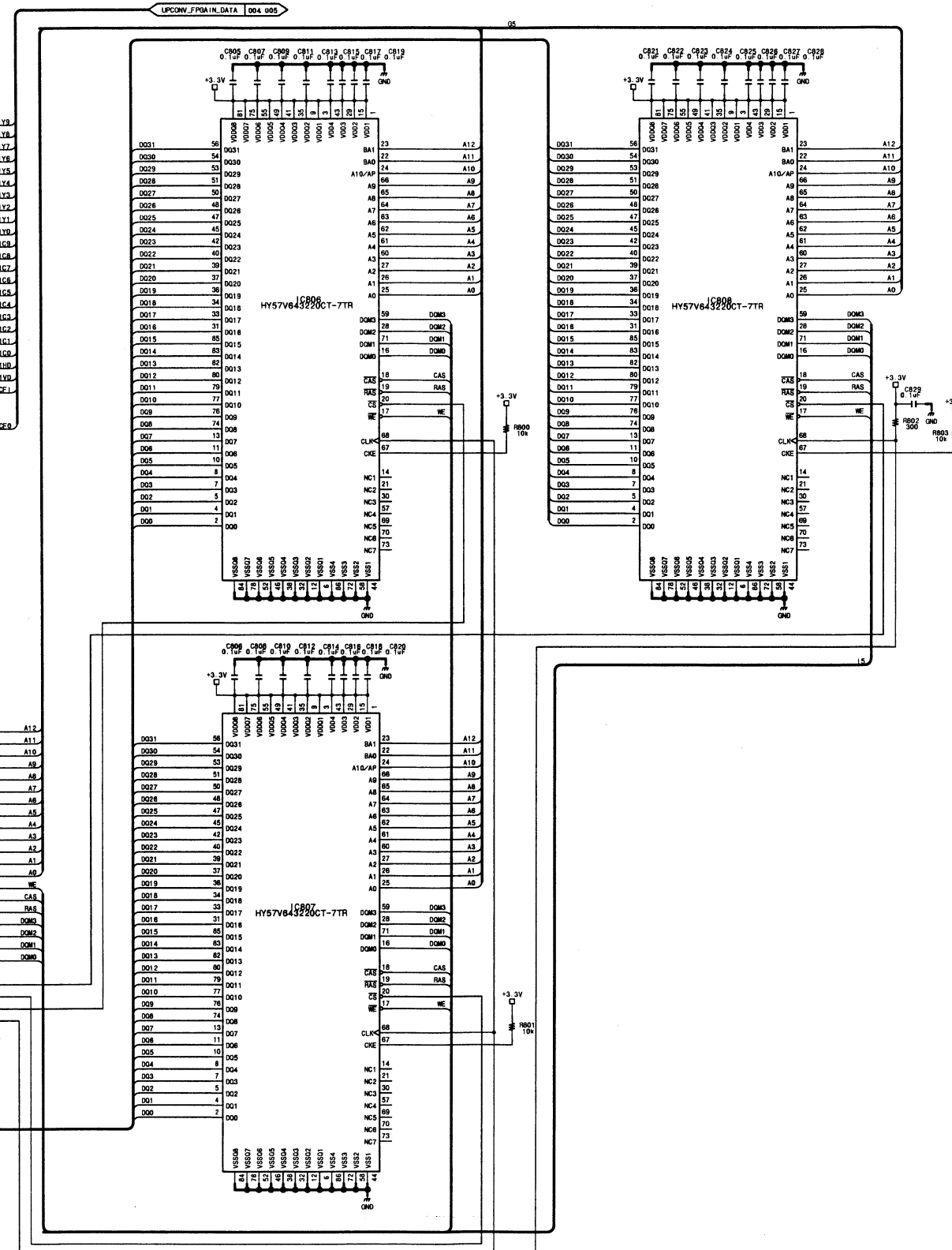
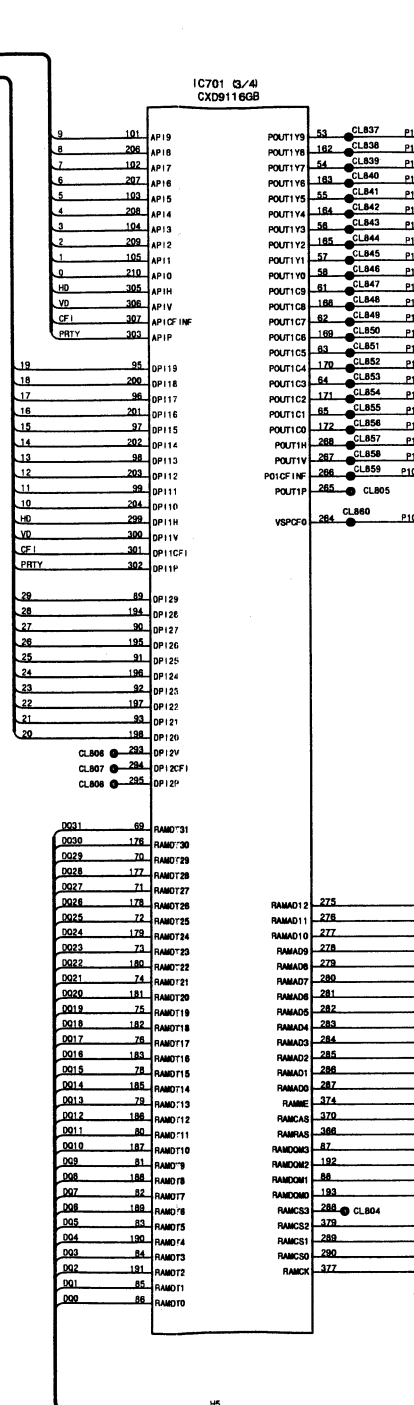
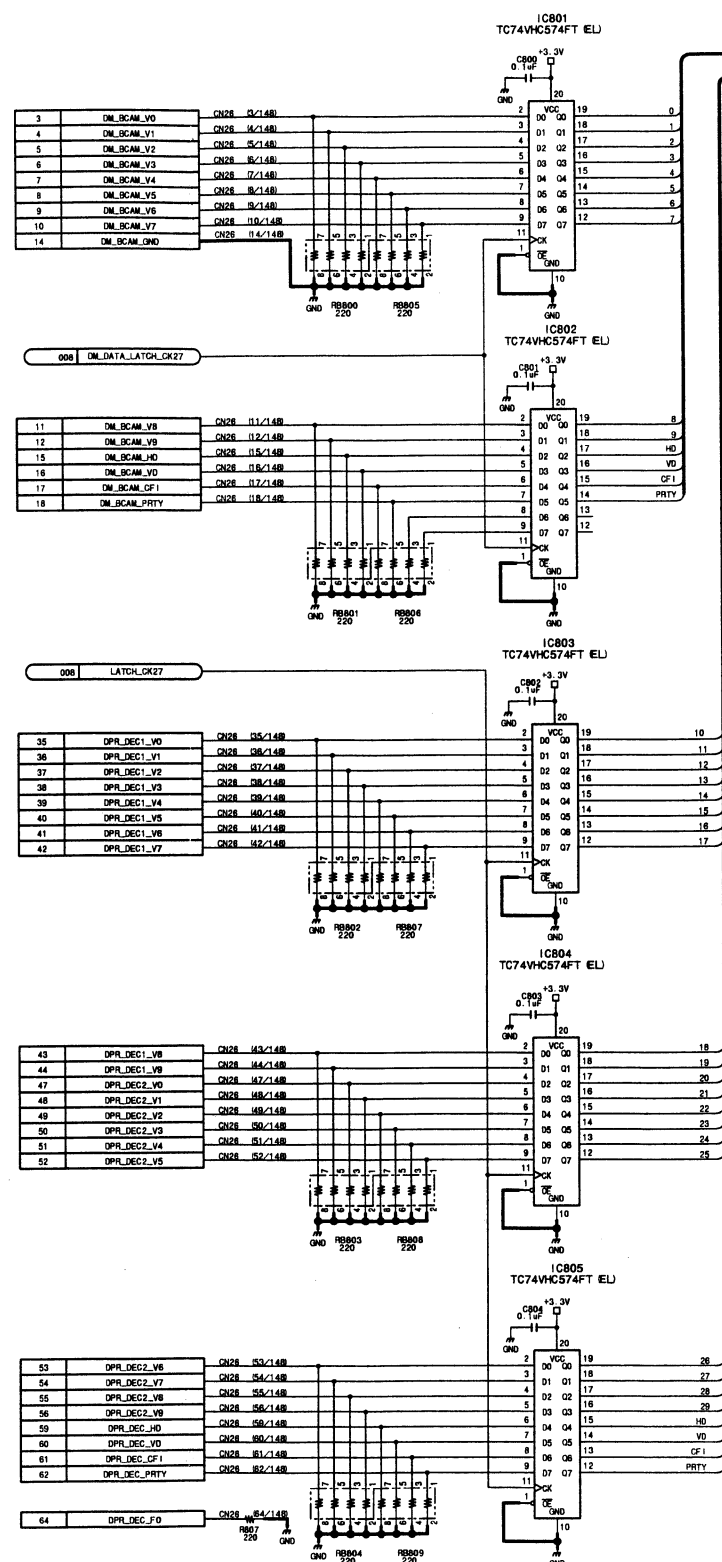
BOARD NO. 1-677-286-15, 17

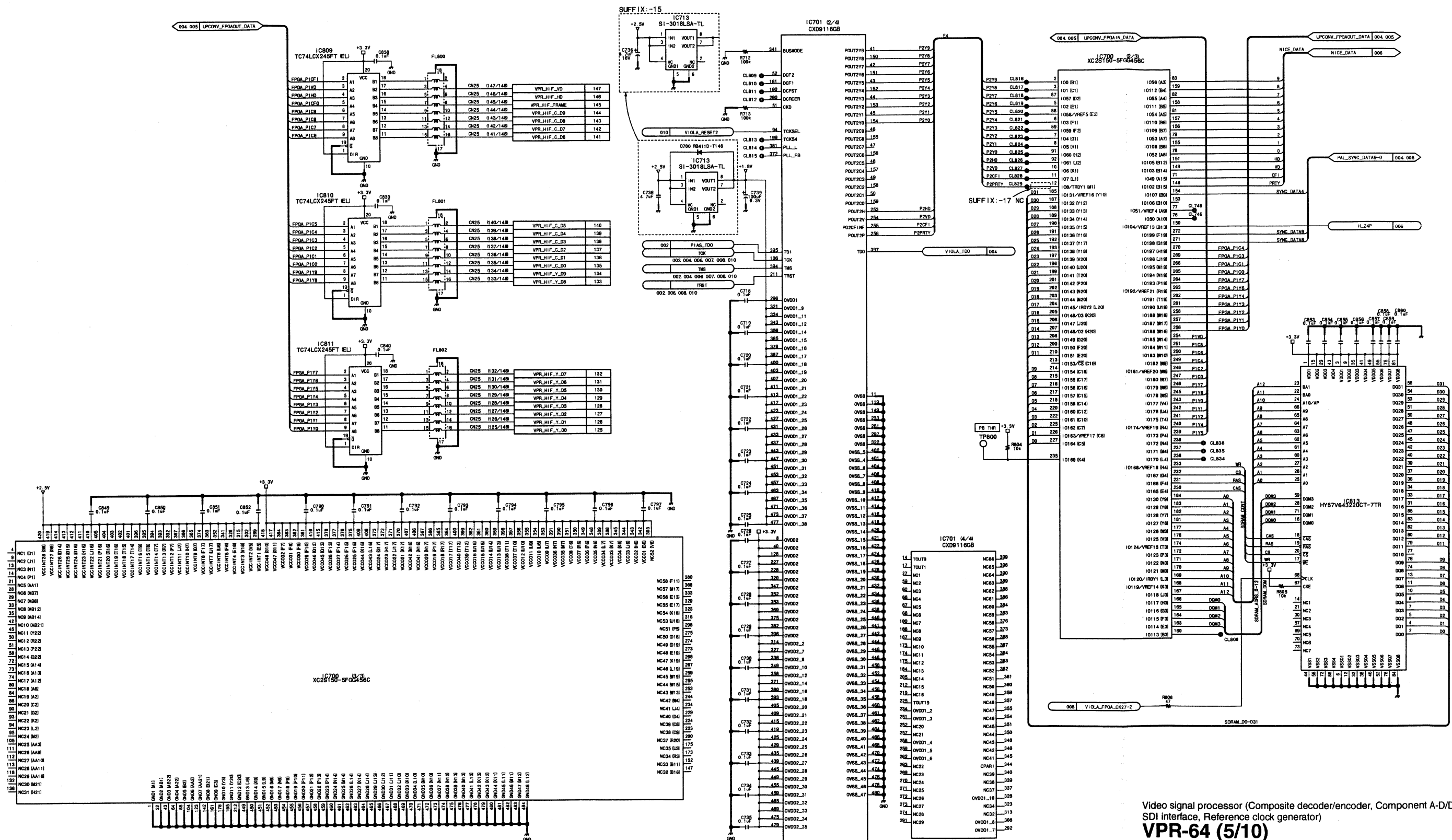
VPR-64A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100
For MSW-M2100/P

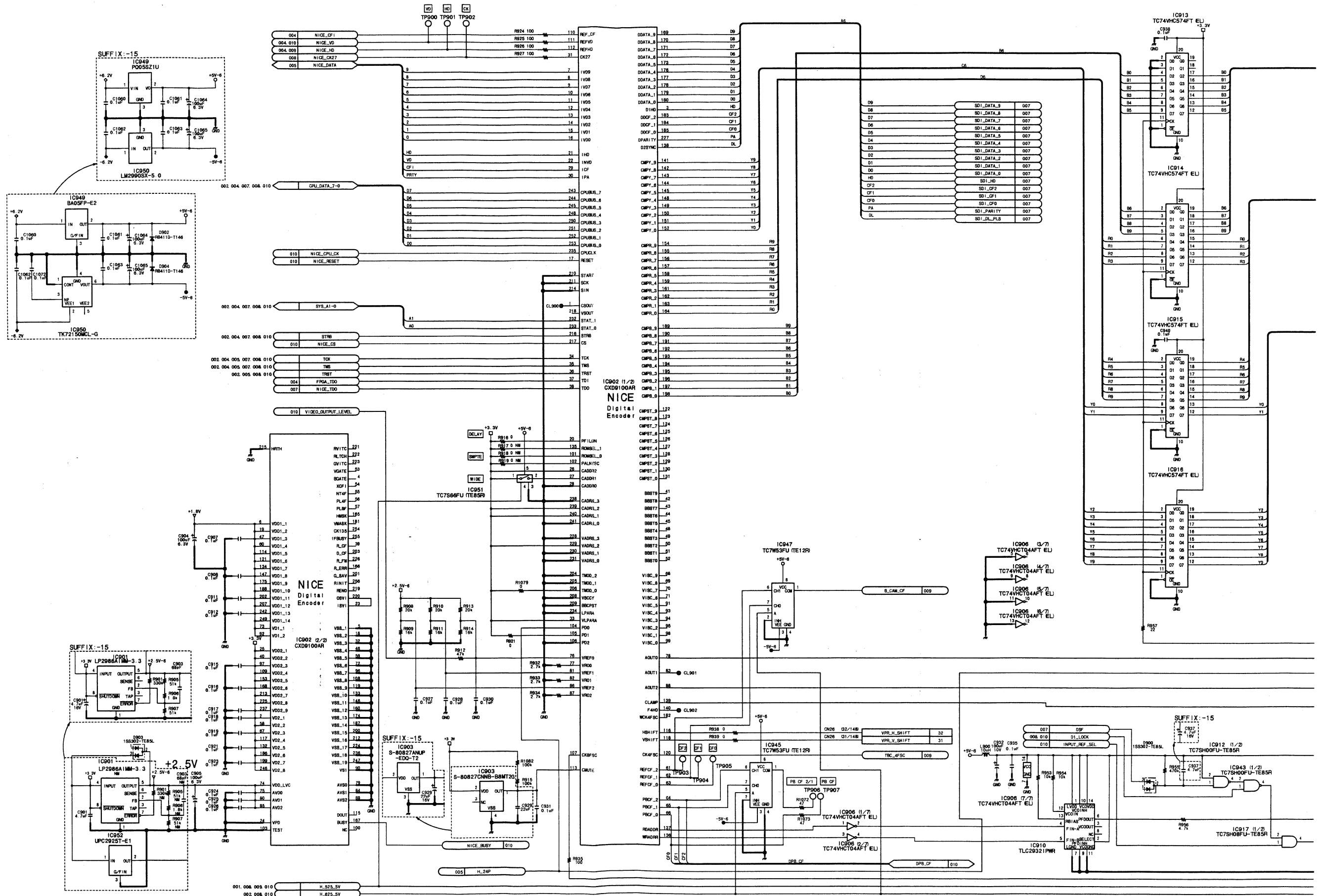
LOT NO. 4C2- For HDW-D2000
LOT NO. 491- For MSW-M2100/E
LOT NO. 462- For HDW-S2000/P

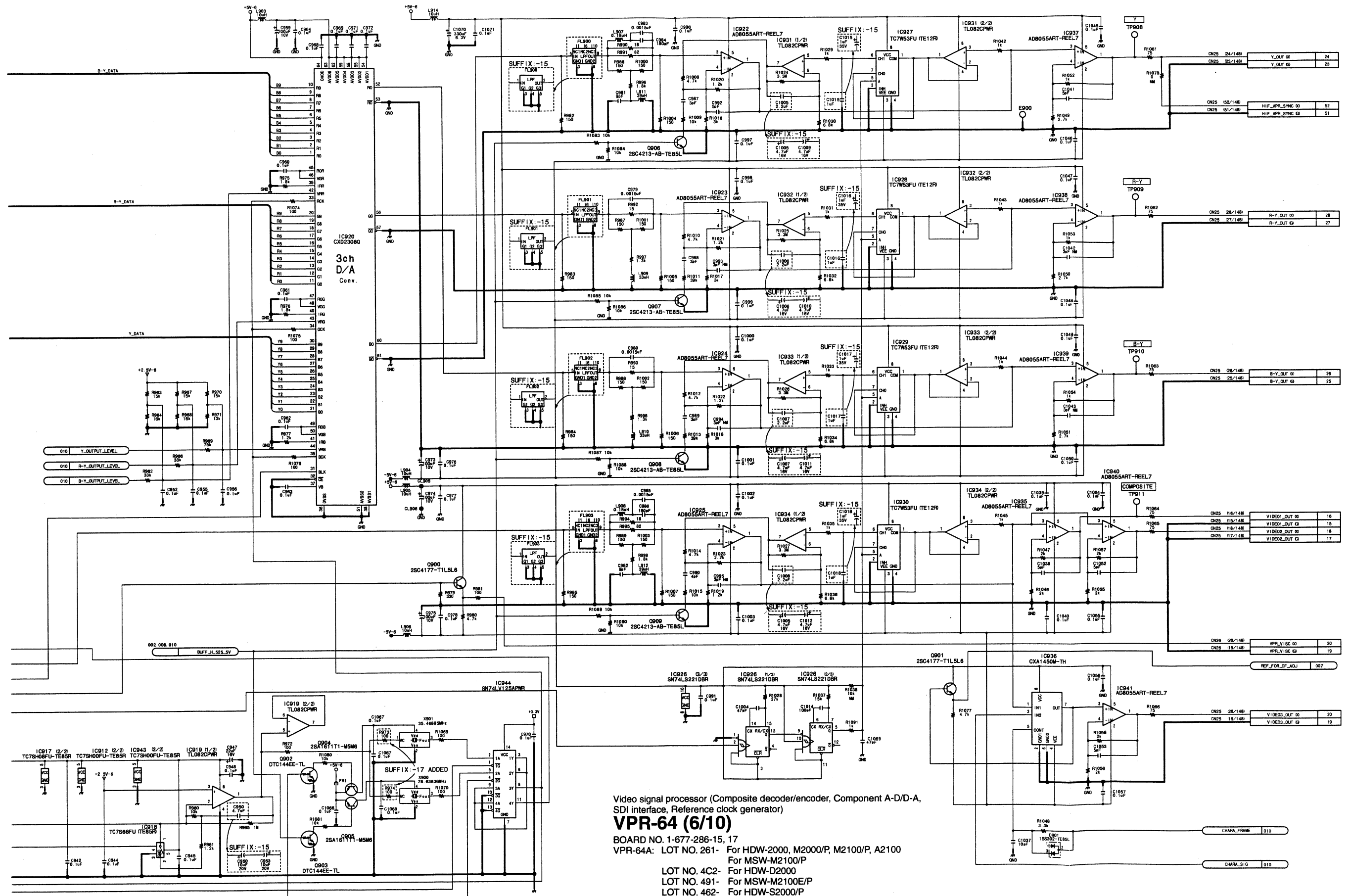
VPR-64: LOT NO. 261- For MSW-2000, M2000/P, A2000/P
LOT NO. 491- For MSW-M2000/E

MFV2_VPR-64_15P_4

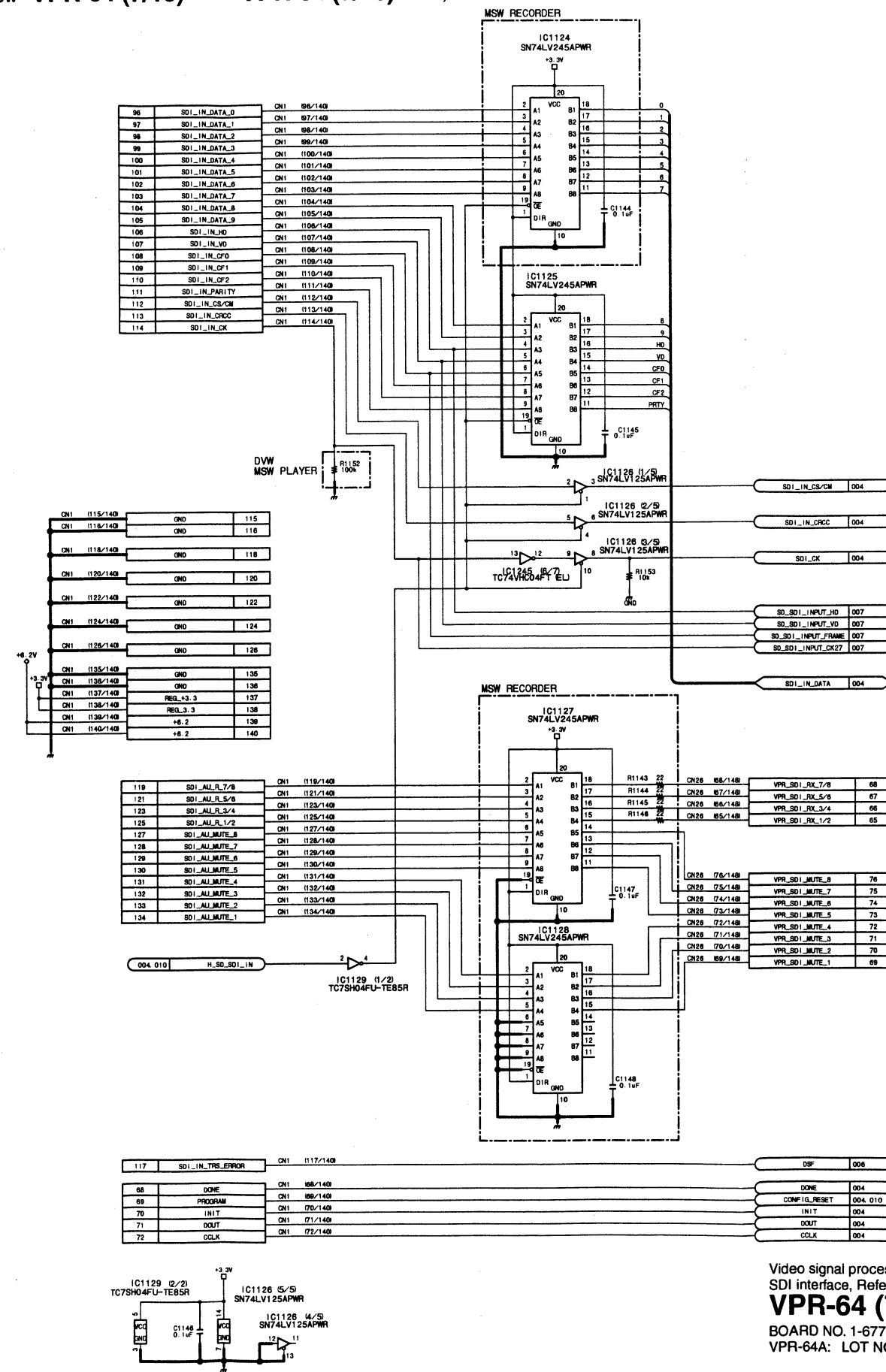
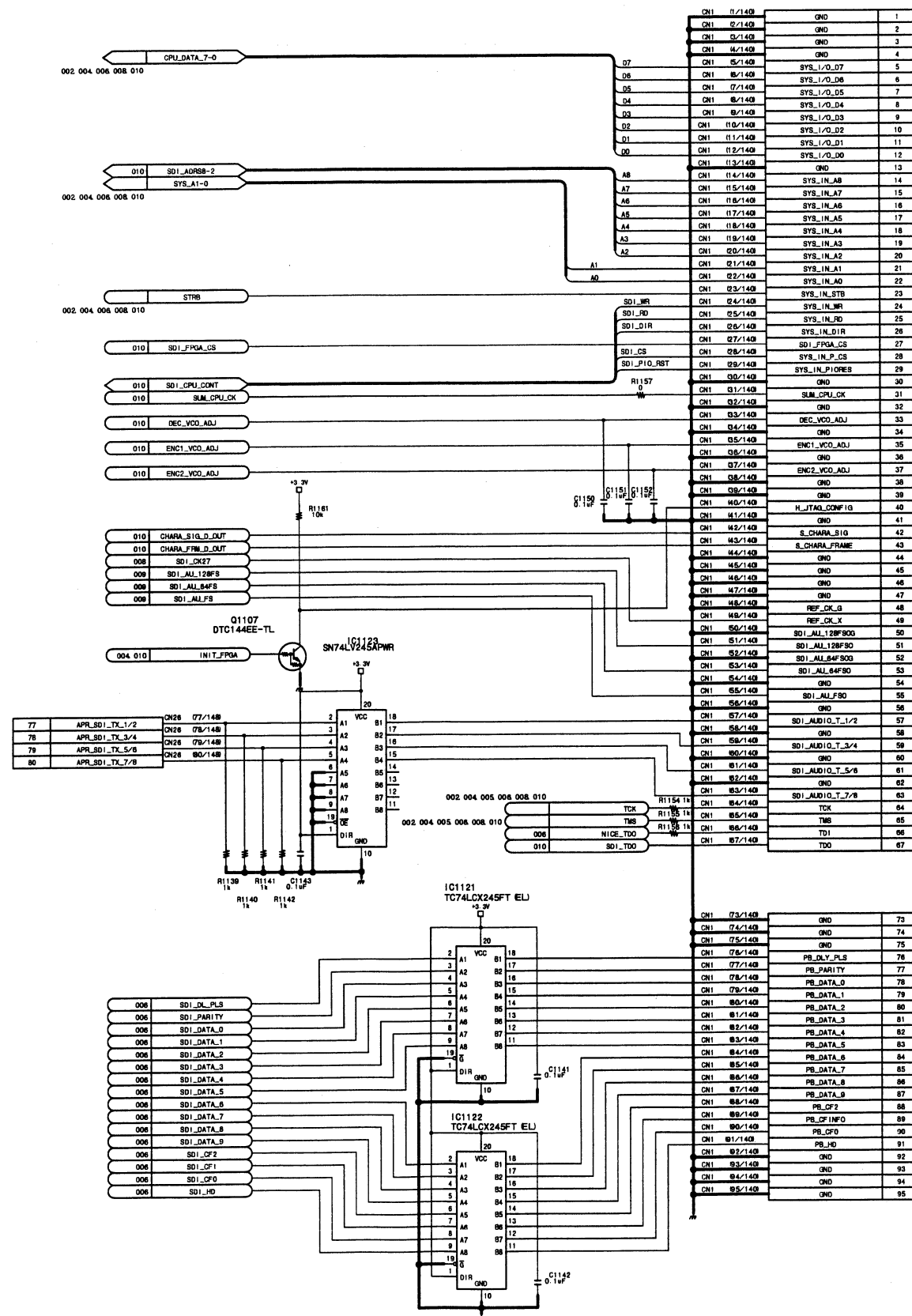












Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)

VPR-64 (7/10)

BOARD NO. 1-677-286-15, 17

VPR-64A: LOT NO.261- For HDW-2000, M2000/P, M2100/P, A2100

For MSW-M2100/P

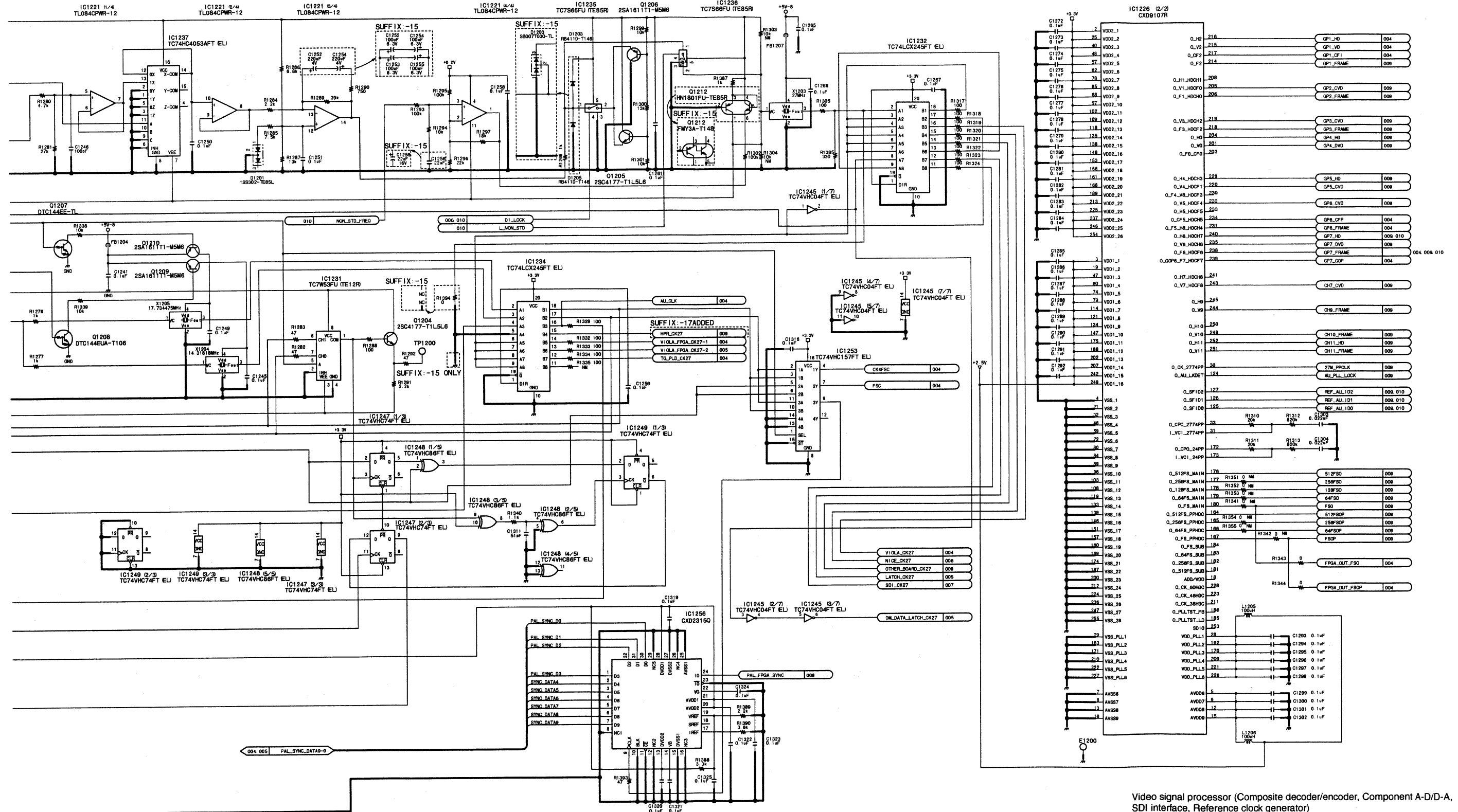
LOT NO. 4C2- For HDW-D2000

LOT NO. 491- For MSW-M2100E/P

LOT NO. 462- For HDW-S2000/P

VPR-64: LOT NO. 261- For MSW-2000, M200

LOT
MFV2_VPR-64_15P_7



Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)

VPR-64 (8/10)

BOARD NO. 1-677-286-15, 17

VPR-64A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100

For MSW-M2100/P

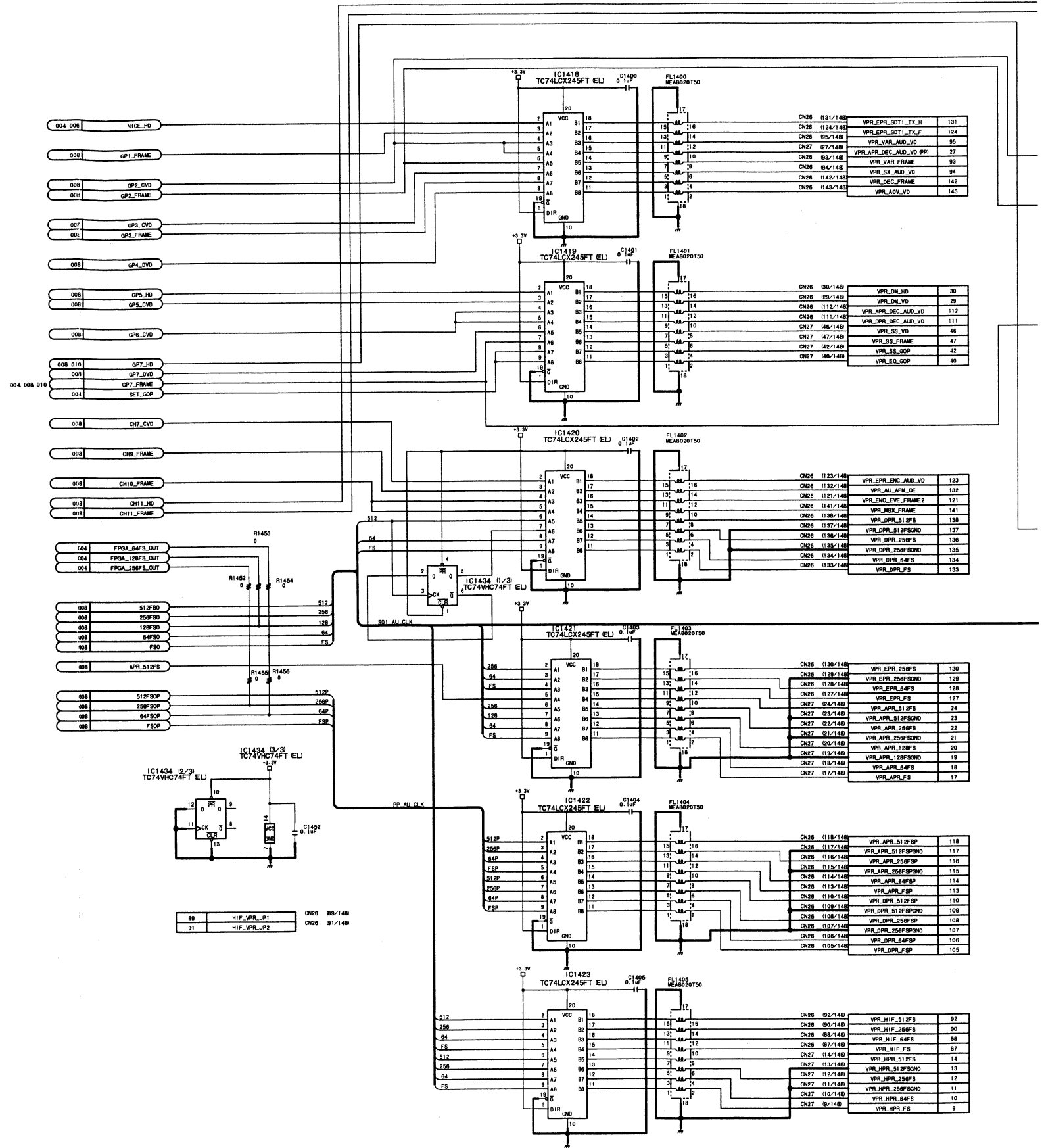
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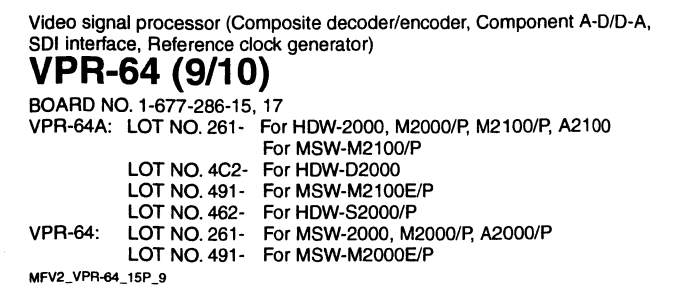
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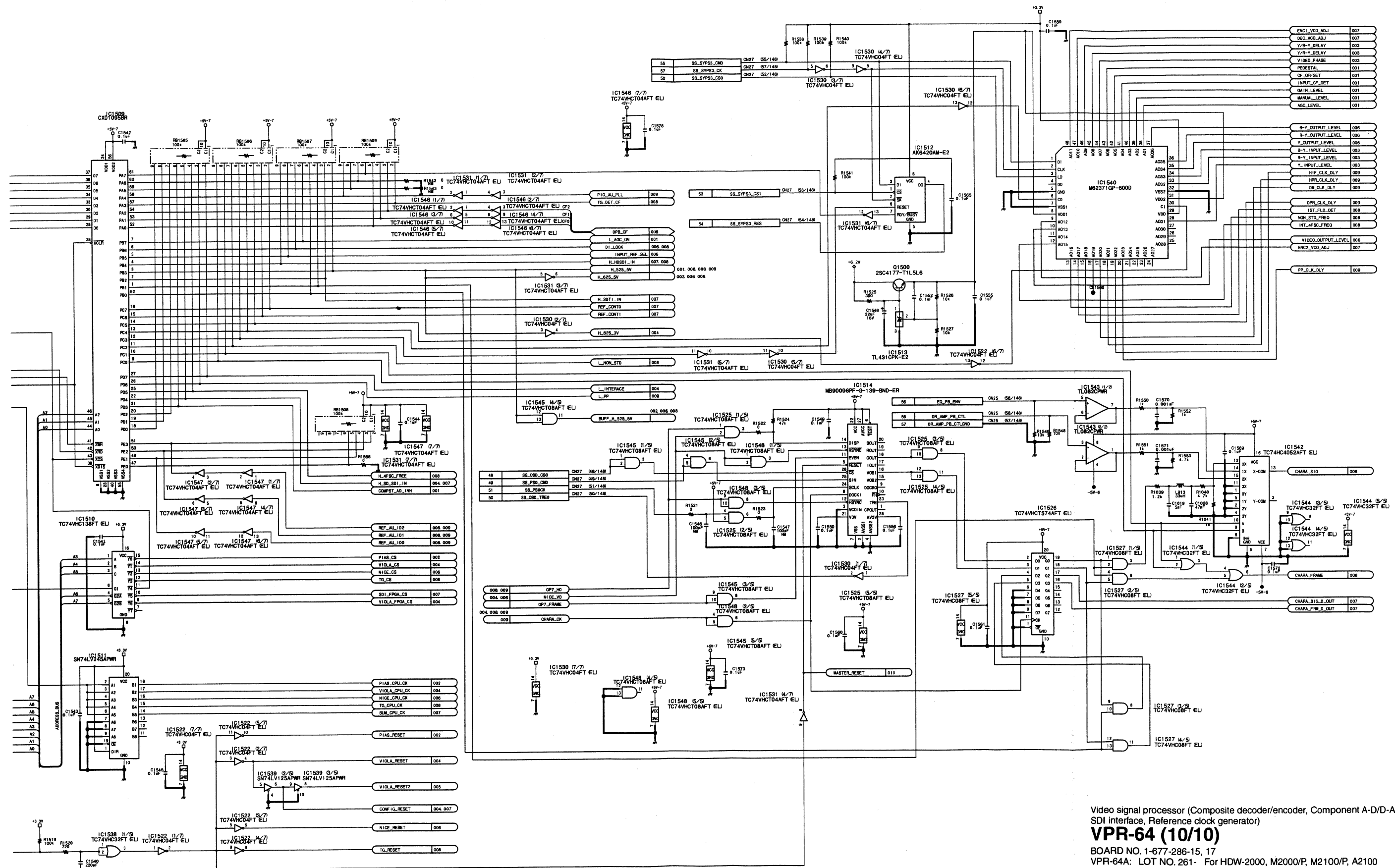
LOT NO. 462- For HDW-S2000/P

VPR-64: LOT NO. 261- For MSW-2000, M200

LOT
MFV2_VPR-64_15P_8







Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)

VPR-64 (10/10)

BOARD NO. 1-677-286-15, 17

VPR-64A: LOT NO. 261- For HDW-2000, M2000/P, M2100/P, A2100

For MSW-M2100/P

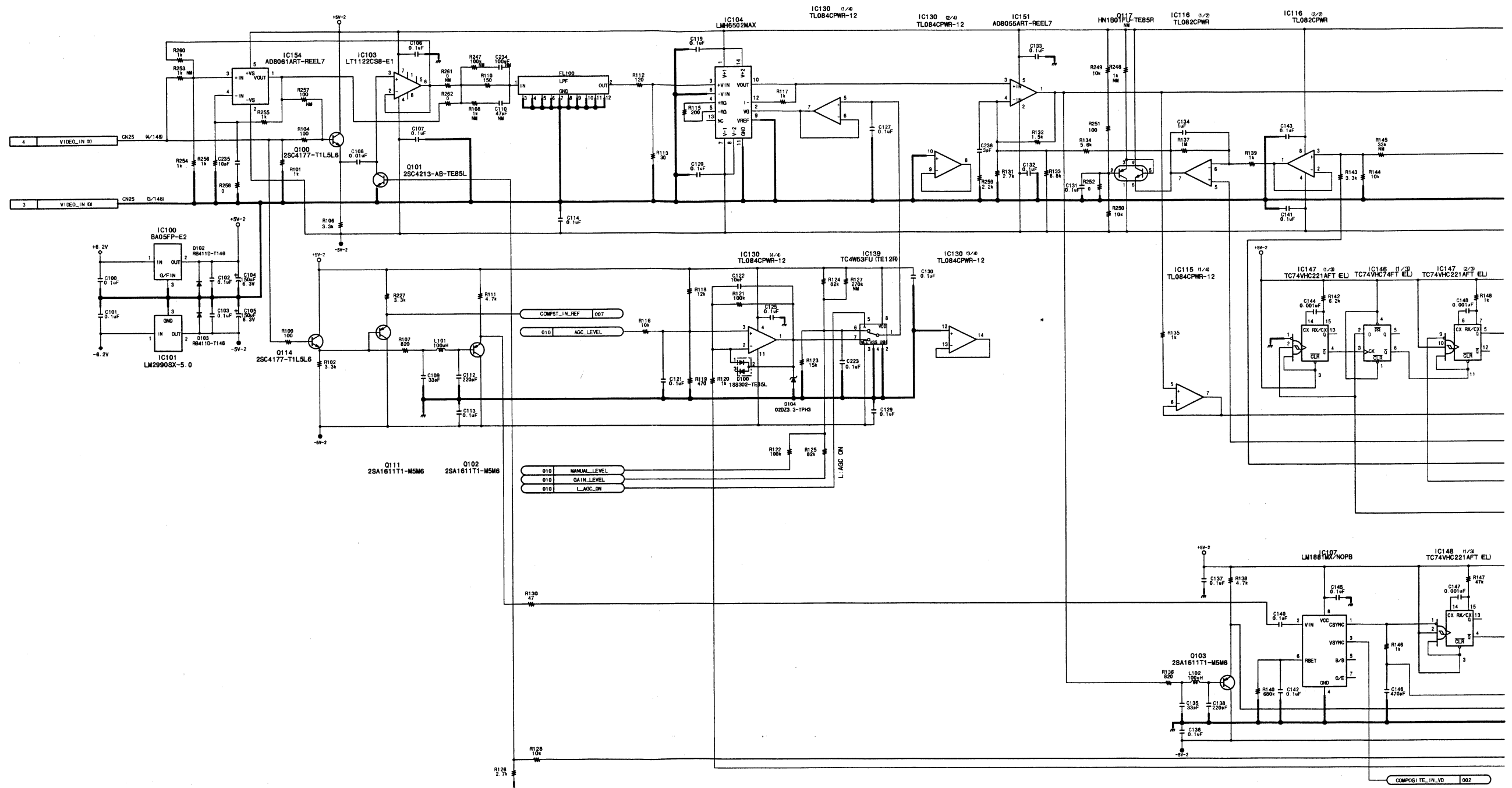
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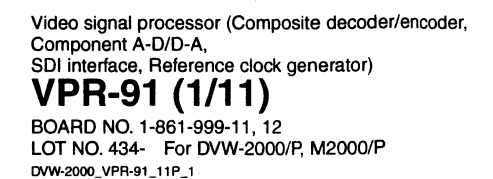
LOT NO. 491- For MSW-M2100E/P

LOT NO. 462- For HDW-S2000/P

VPR-64: LOT NO. 261- For MSW-2000, M2000

LOT N
MFV2_VPR-64_15P_10





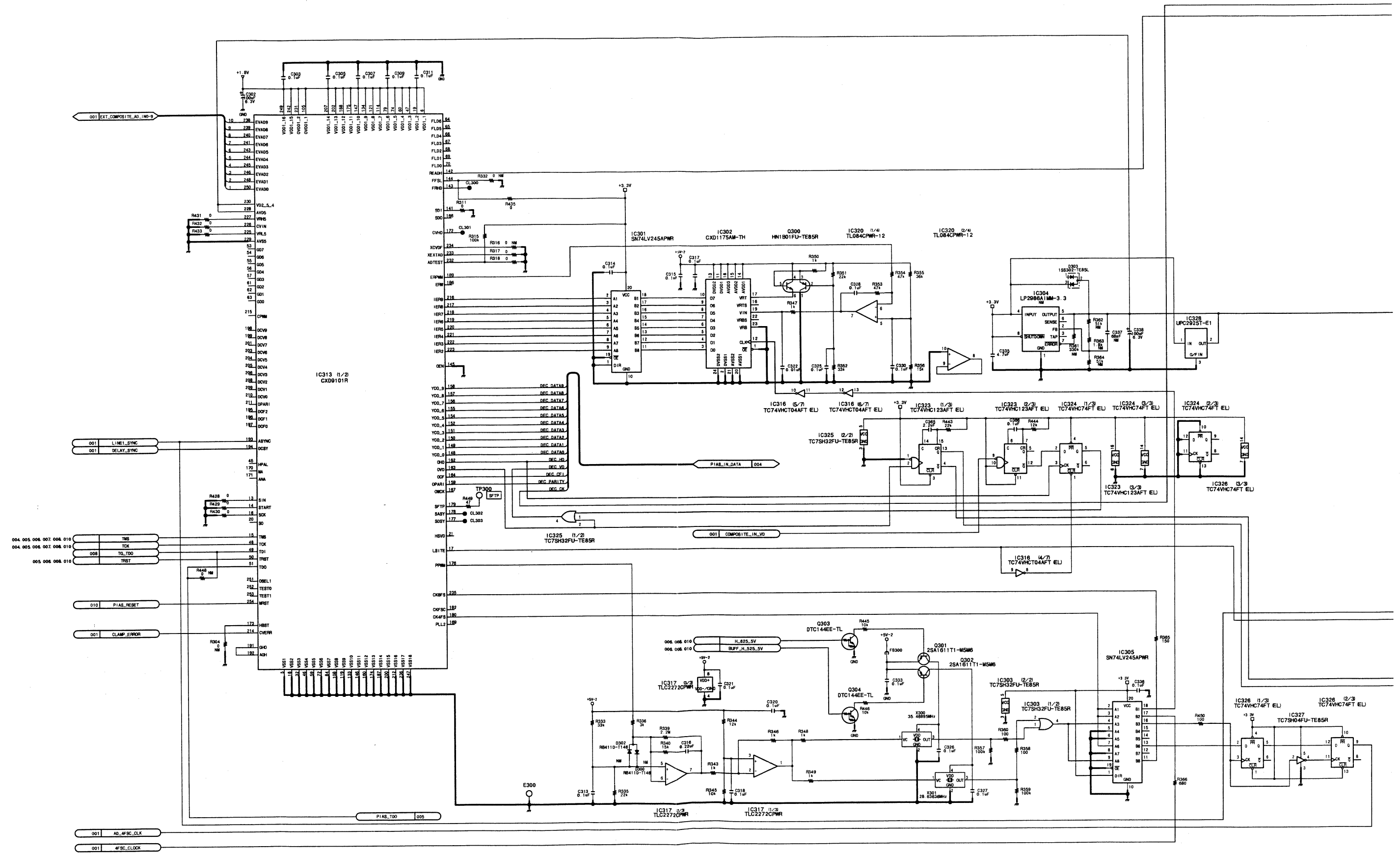
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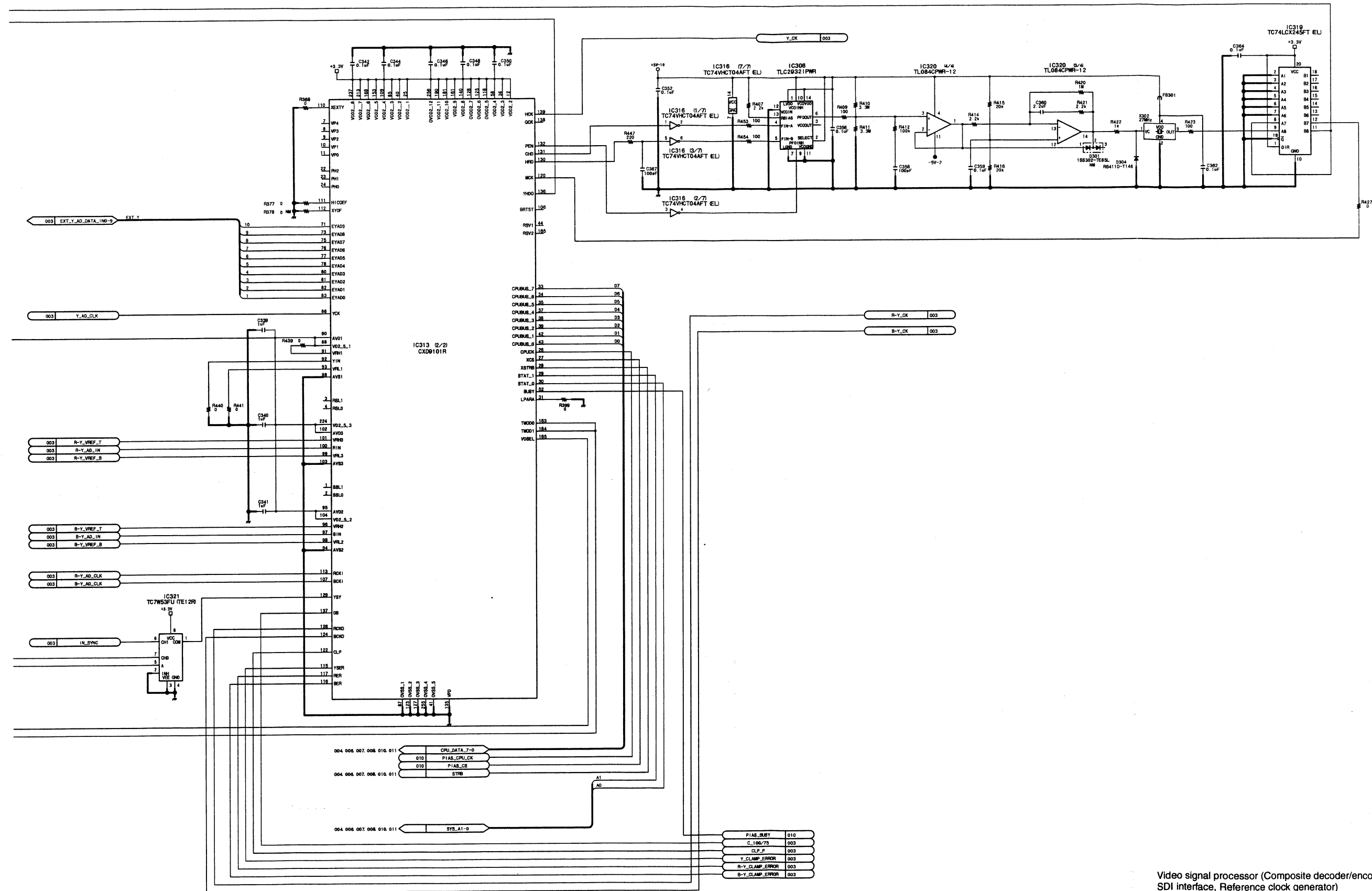
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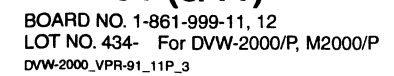


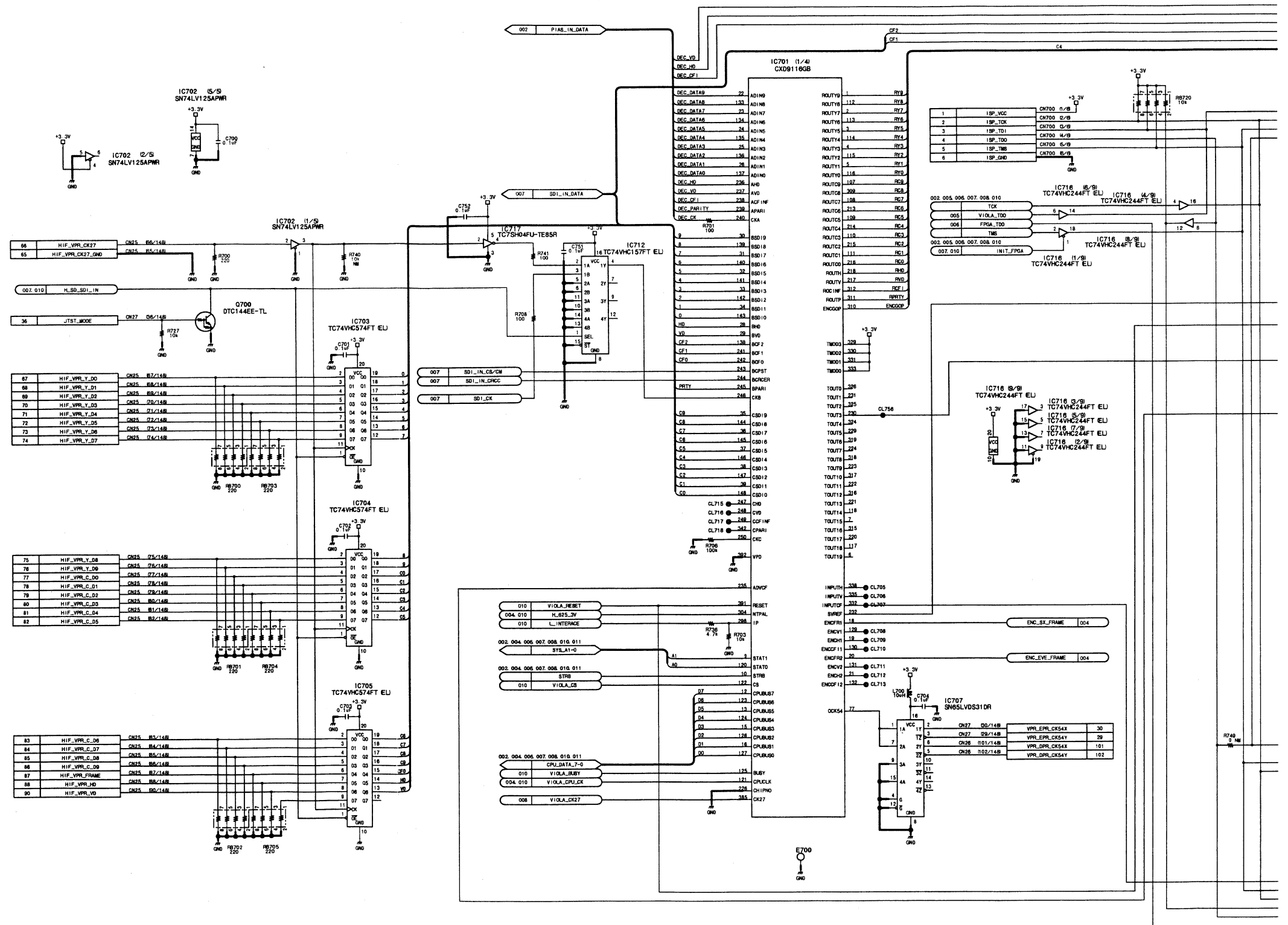
Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)

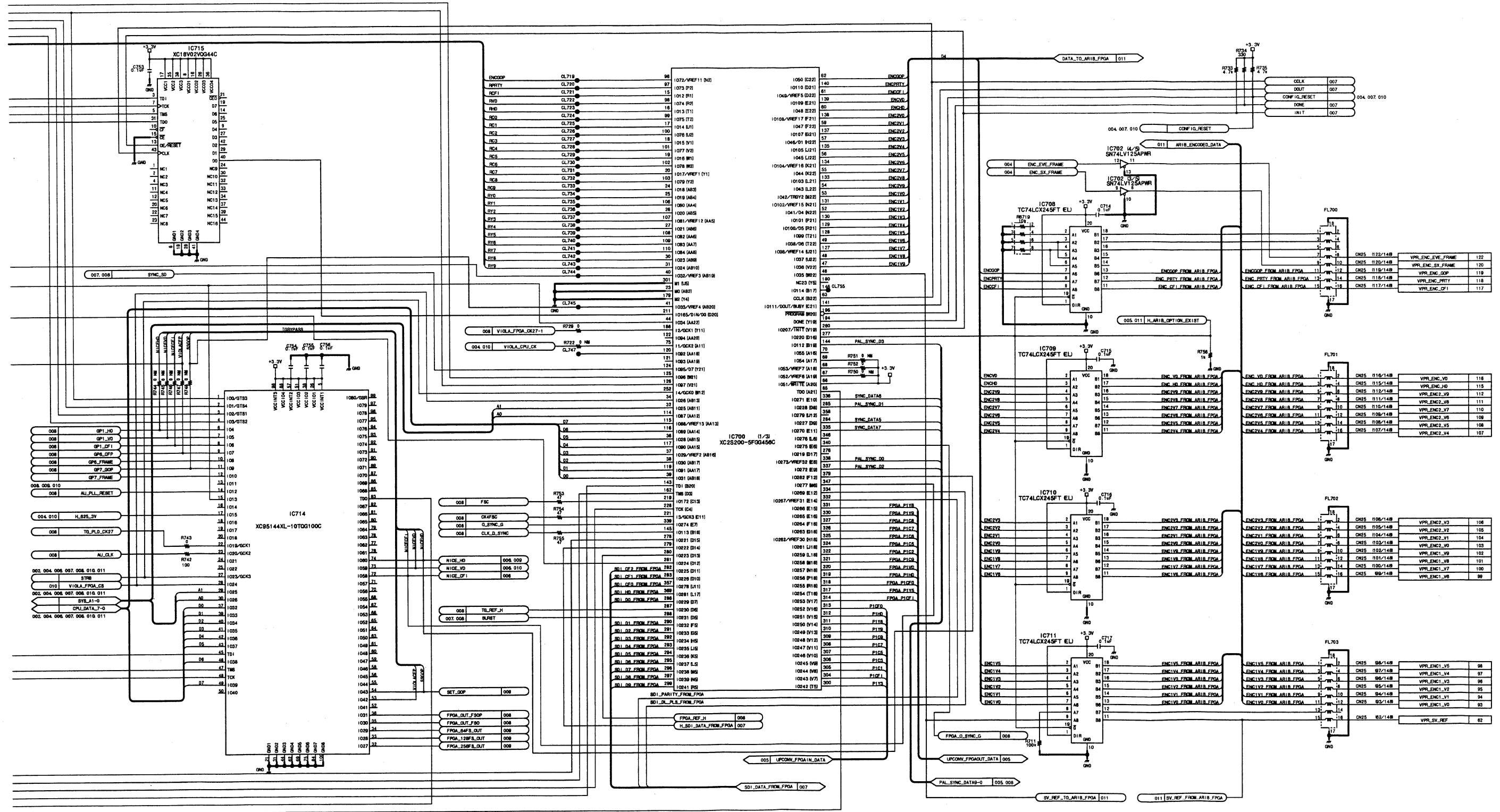
VPR-91 (2/11)

BOARD NO. 1-861-999-11, 12
LOT NO. 434- For DVW-2000/P, M2000/P
DVW-2000_VPR-91_11P_2

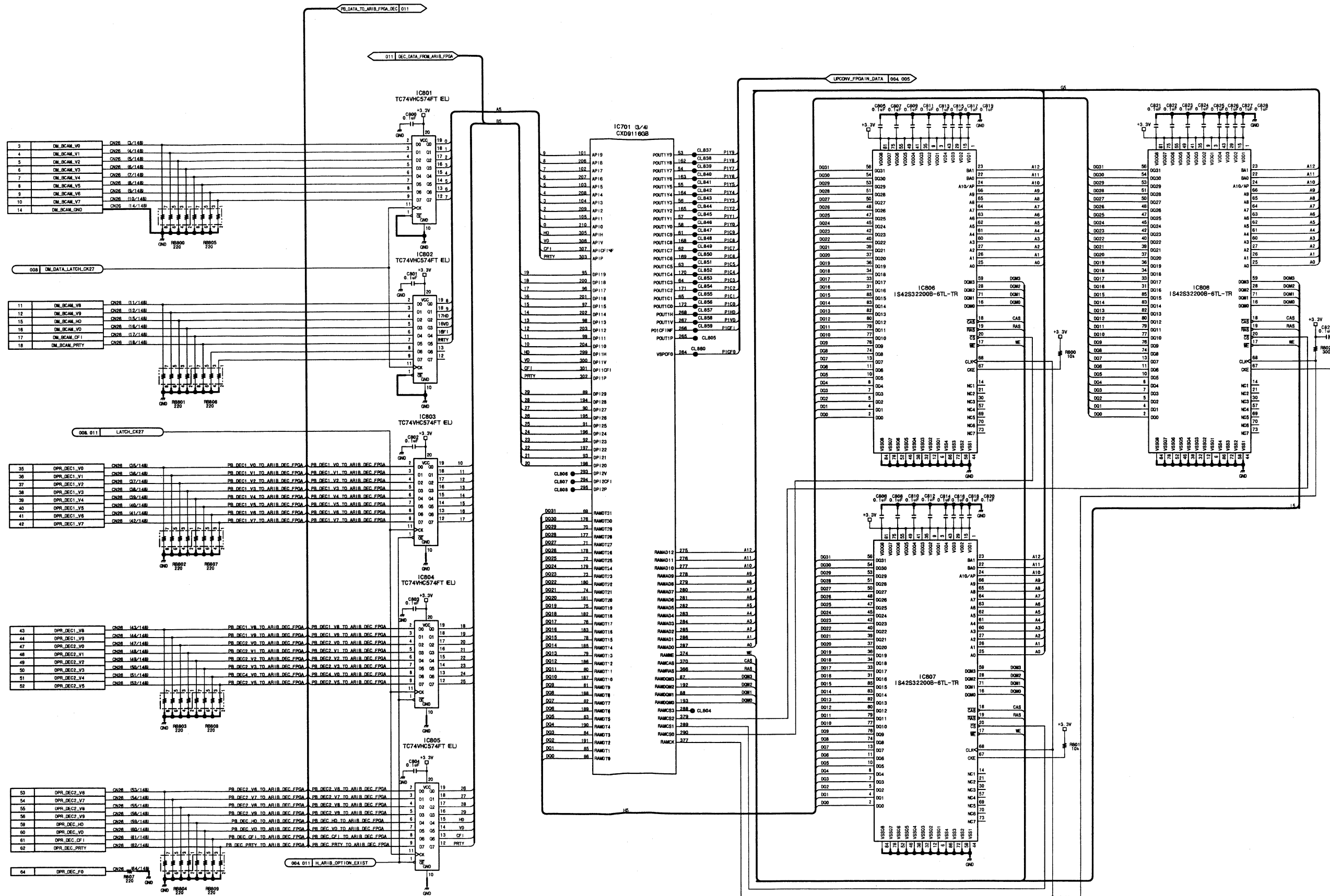


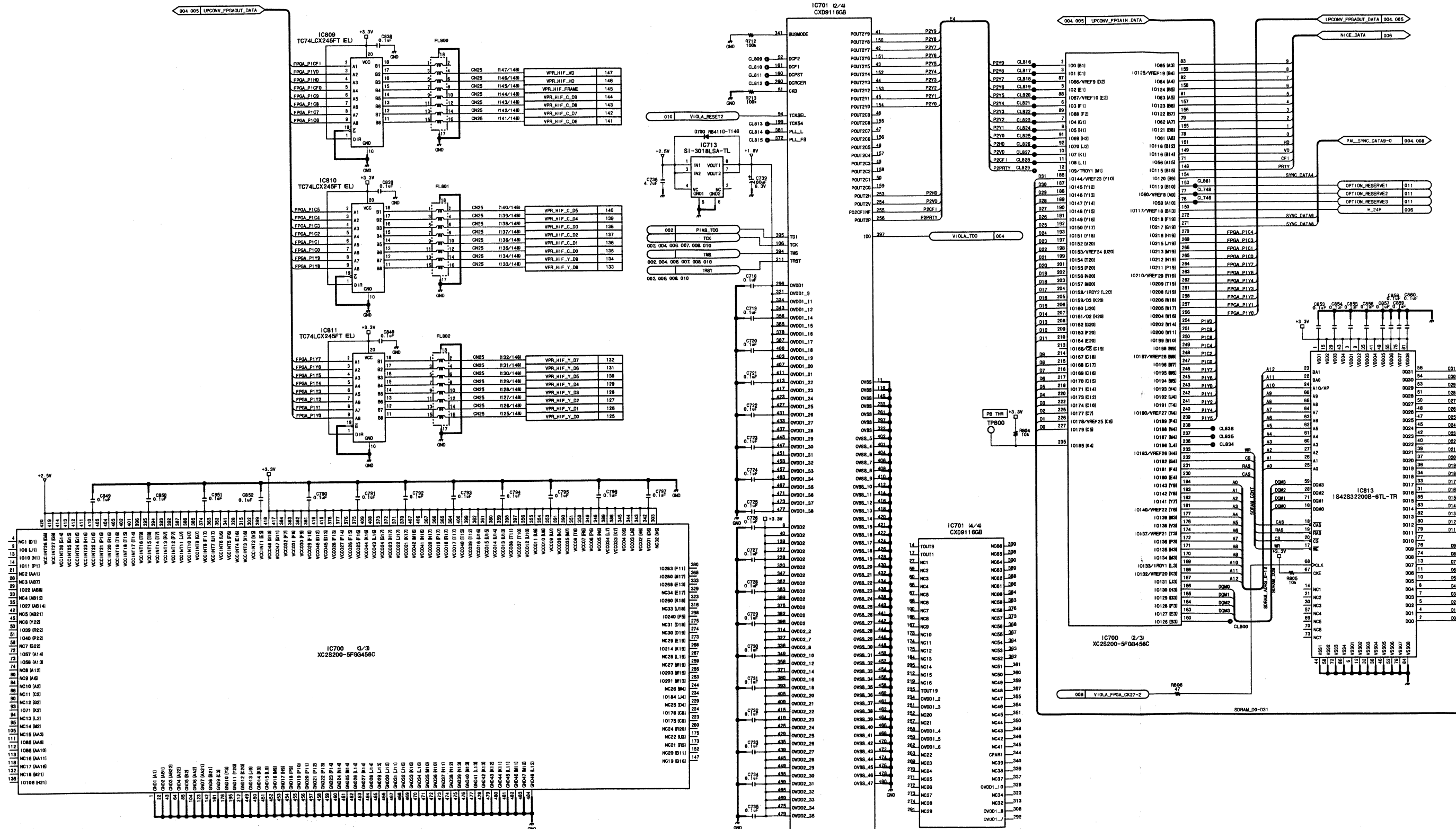


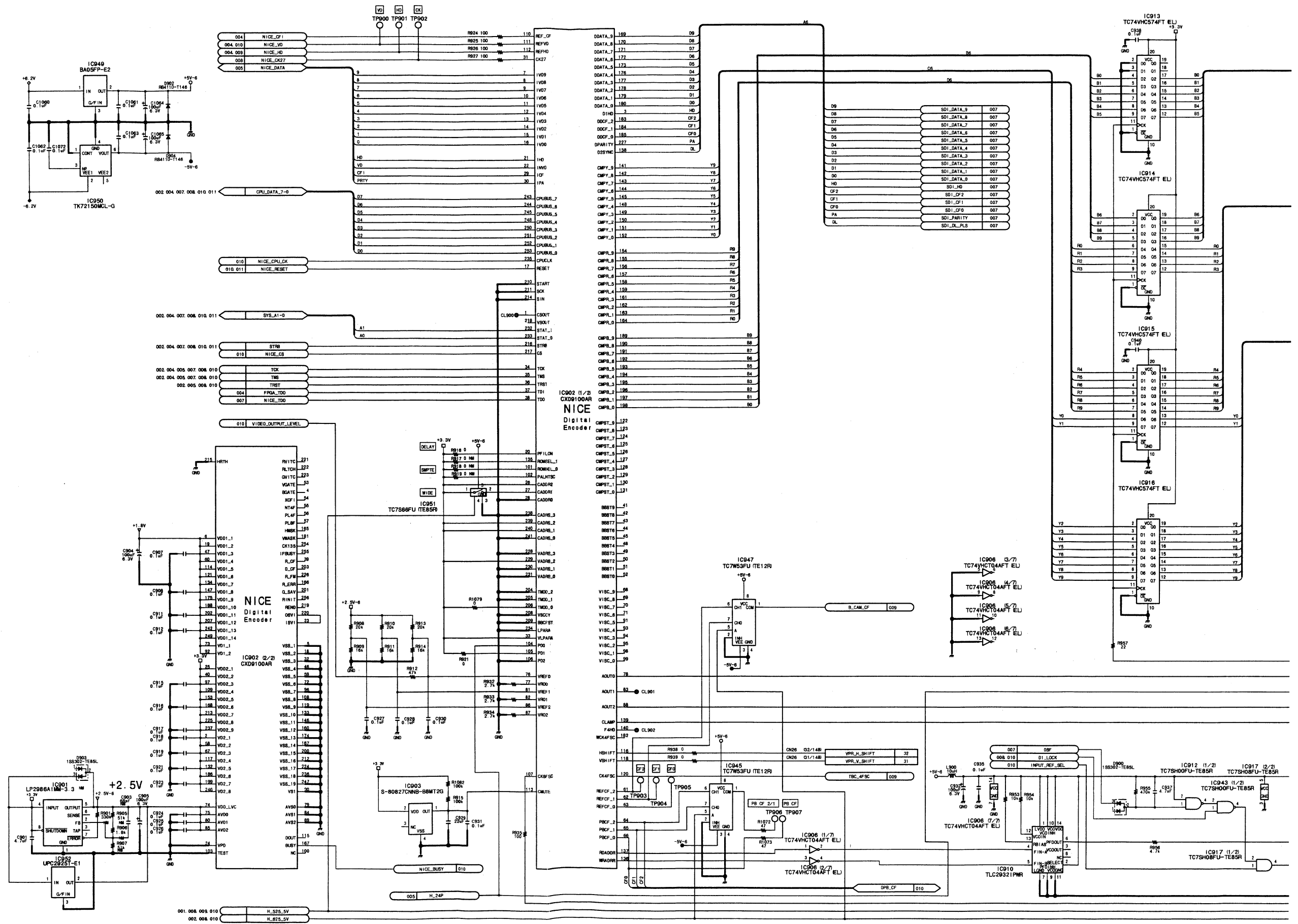


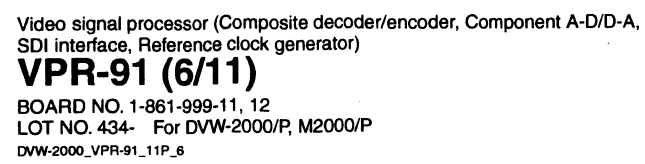


Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)
VPR-91 (4/11)
 BOARD NO. 1-861-999-11, 12
 LOT NO. 434- For DVW-2000/P, M2000/P
 DW-2000_VPR-91_11P_4









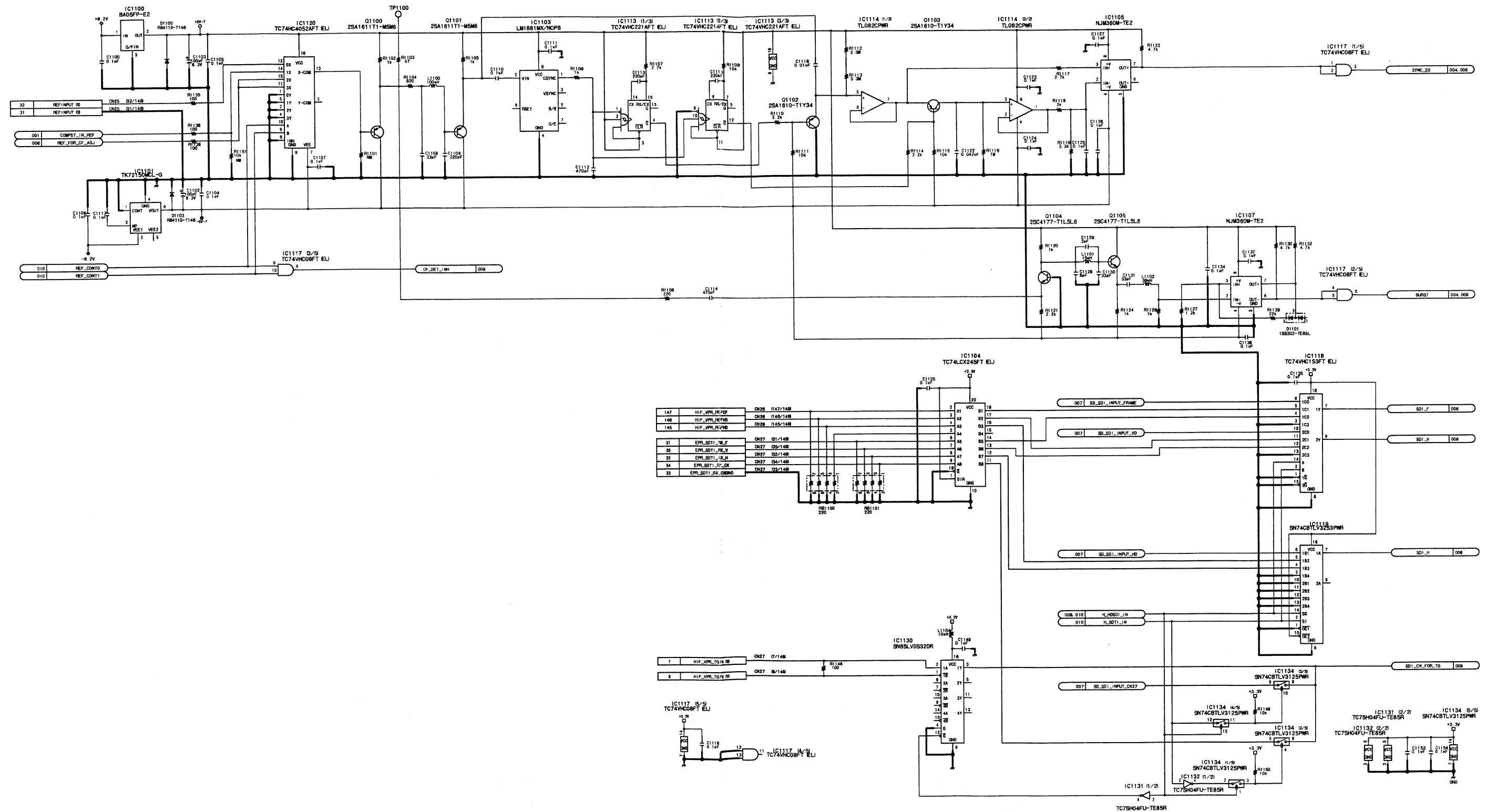
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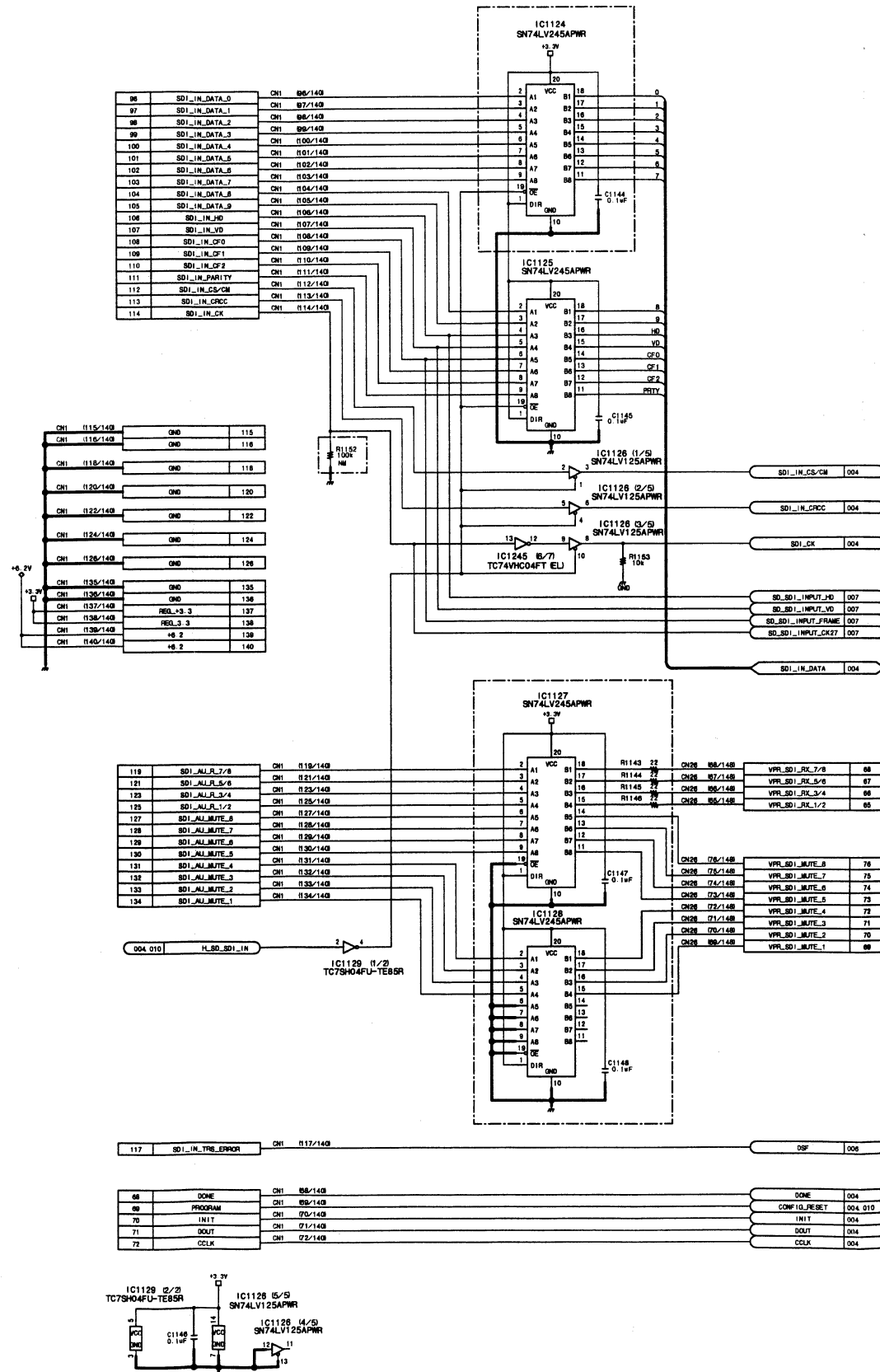
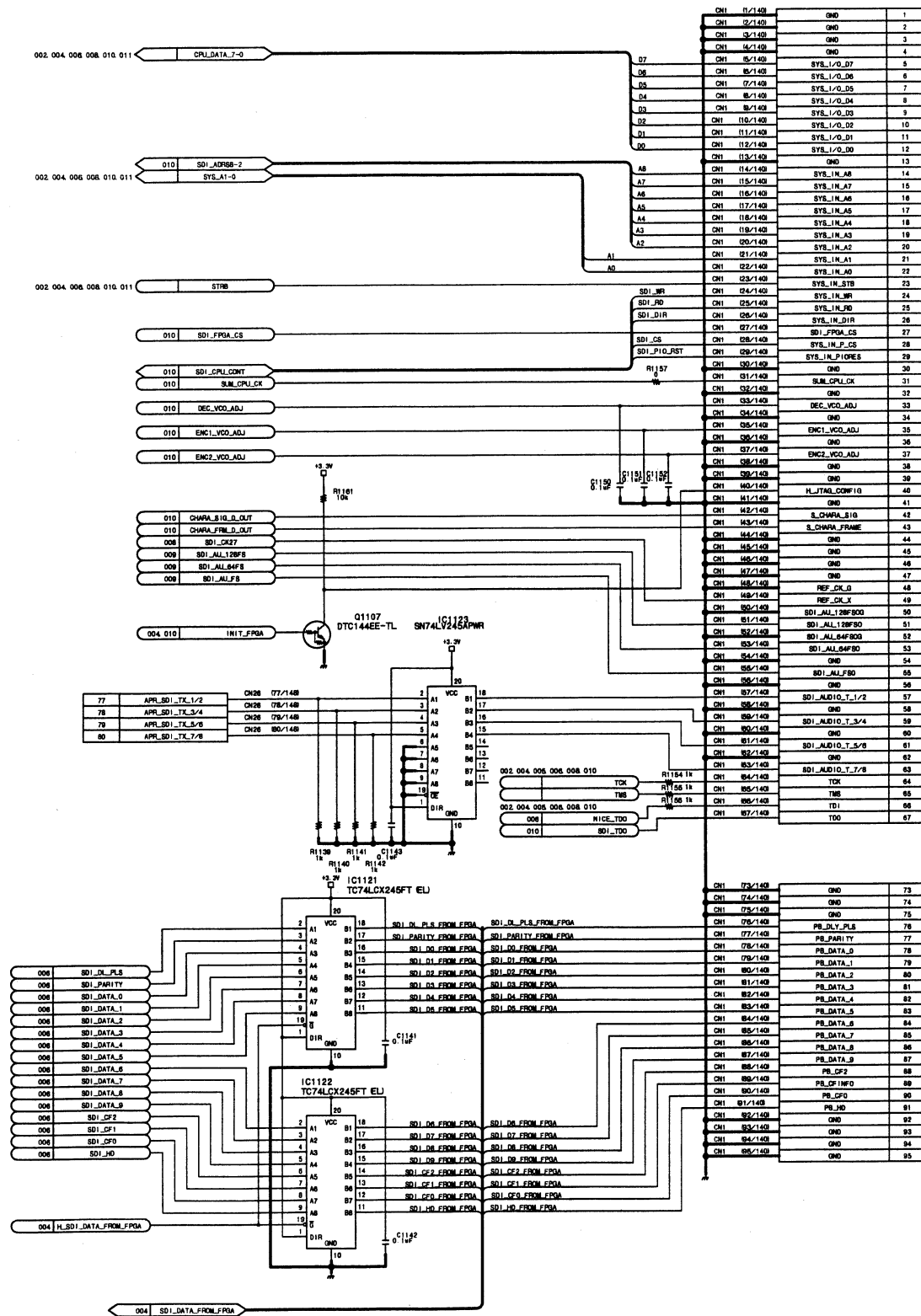
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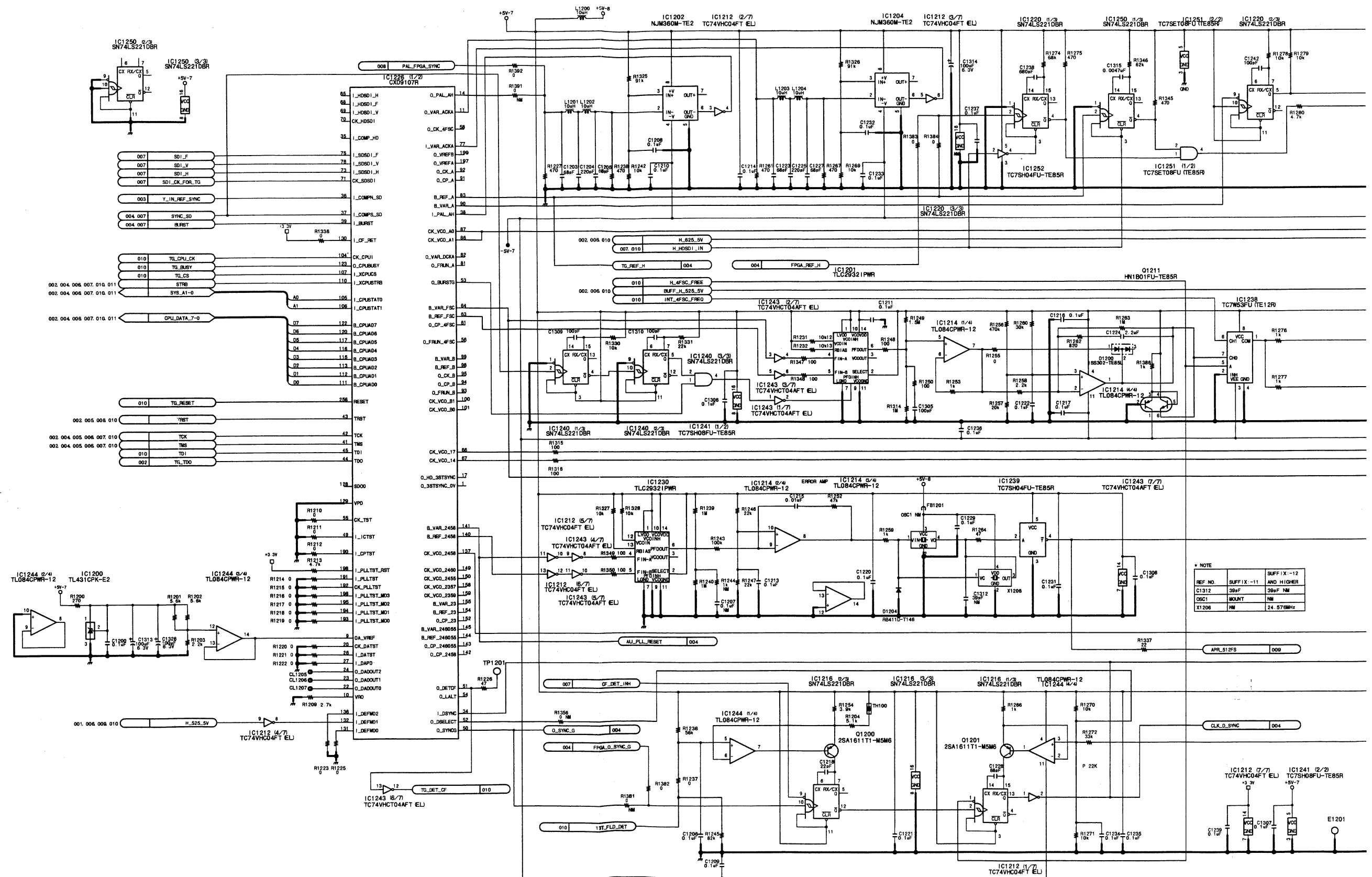
E

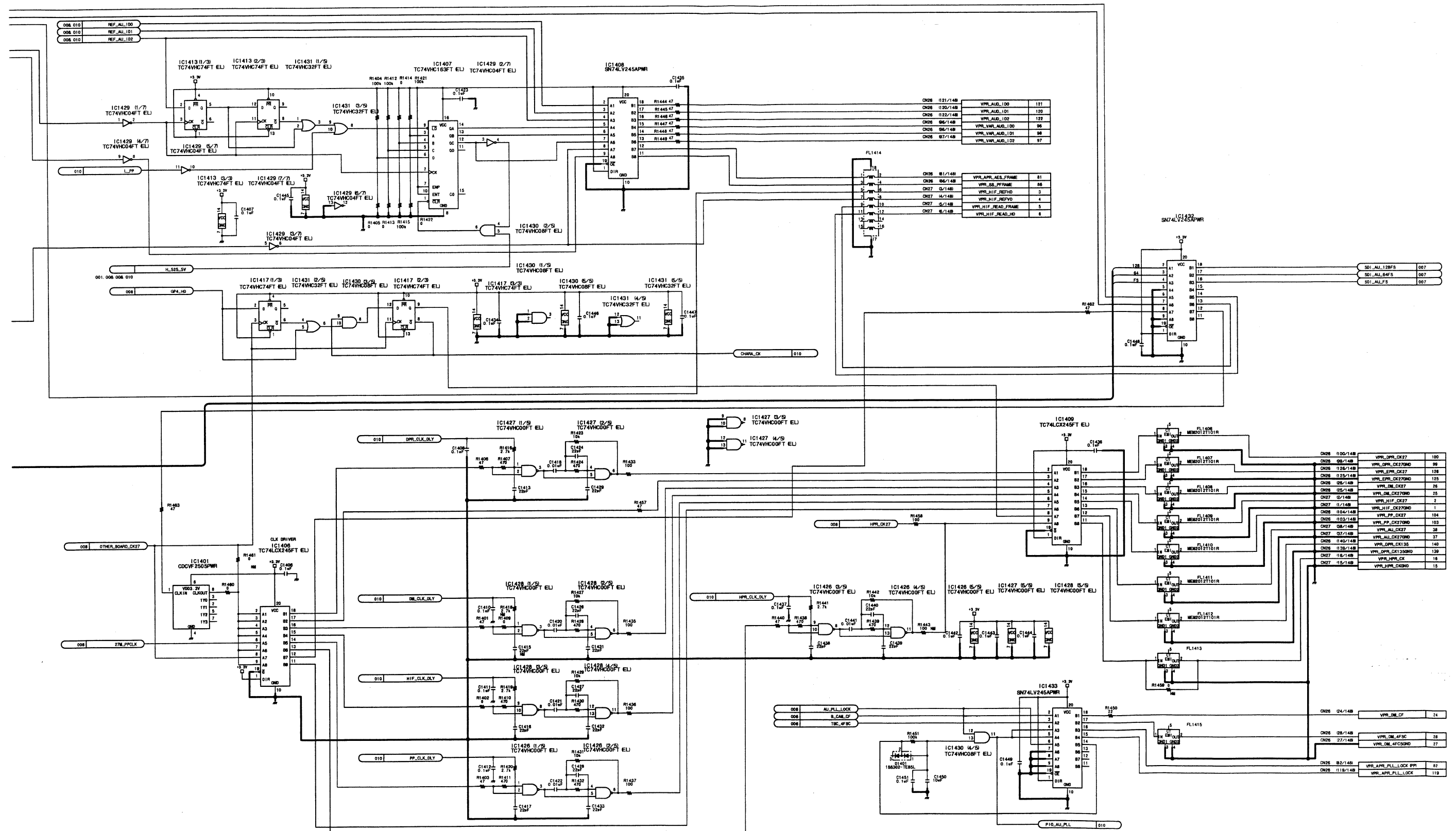
F

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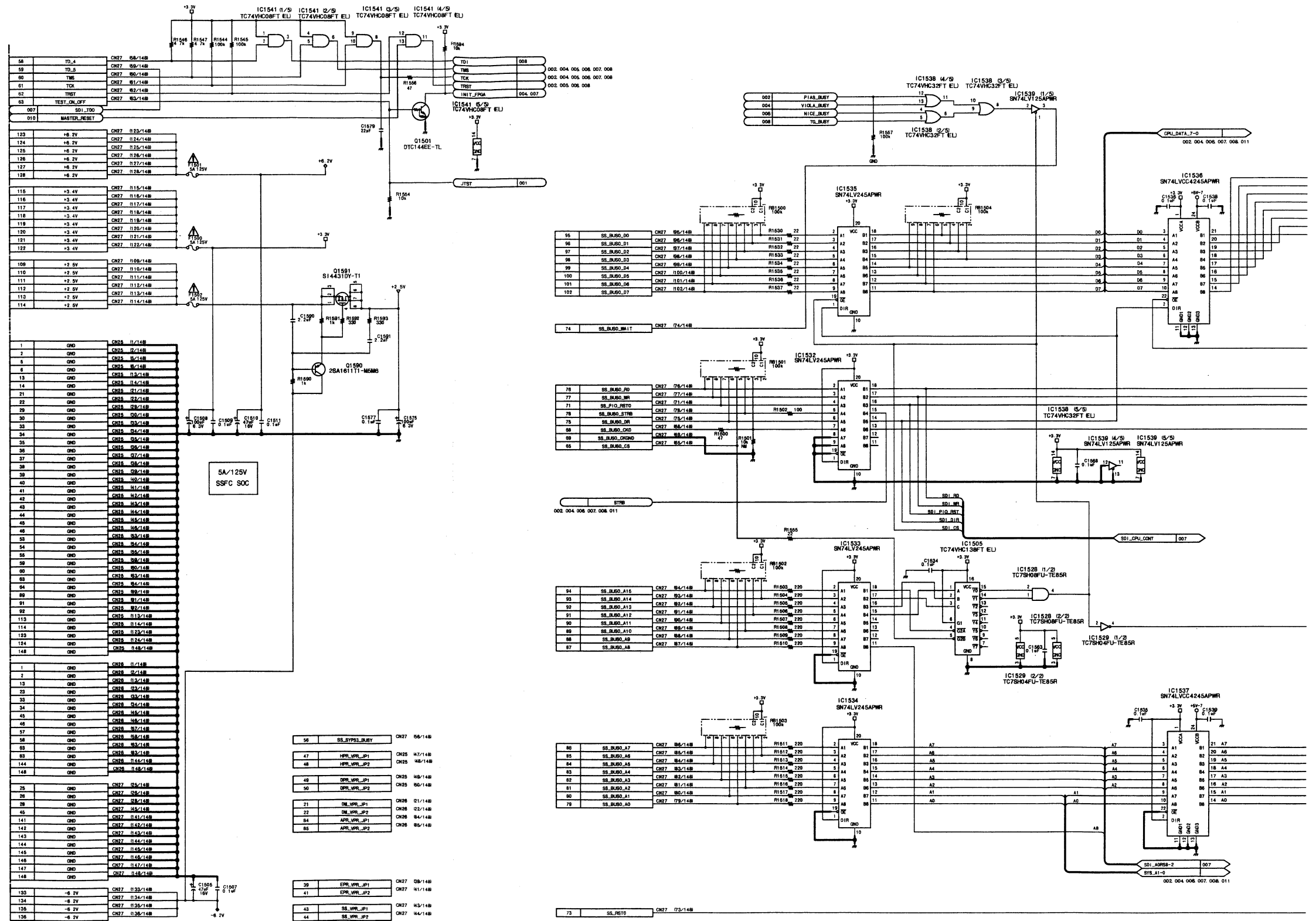


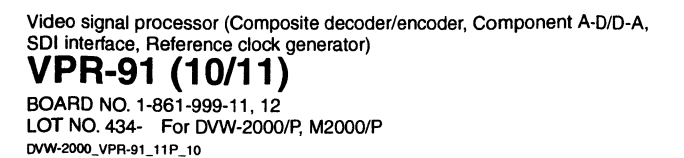


Video signal processor (Composite decoder/encoder, Component A-D/D-A, SDI interface, Reference clock generator)

VPR-91 (9/11)

BOARD NO. 1-861-999-11, 12
LOT NO. 434- For DVW-2000/P, M2000/P
DVW-2000_VPR-91_11P_9









Video signal processor (Composite decoder/encoder, Component A/D/D-A, SDI interface, Reference clock generator)
VPR-91 (11/11)
 BOARD NO. 1-861-999-11, 12
 LOT NO. 434- For DVW-2000/P, M2000/P
 DVW-2000_VPR-91_11P_11

Frame Wiring (1/2) Frame Wiring (1/2)

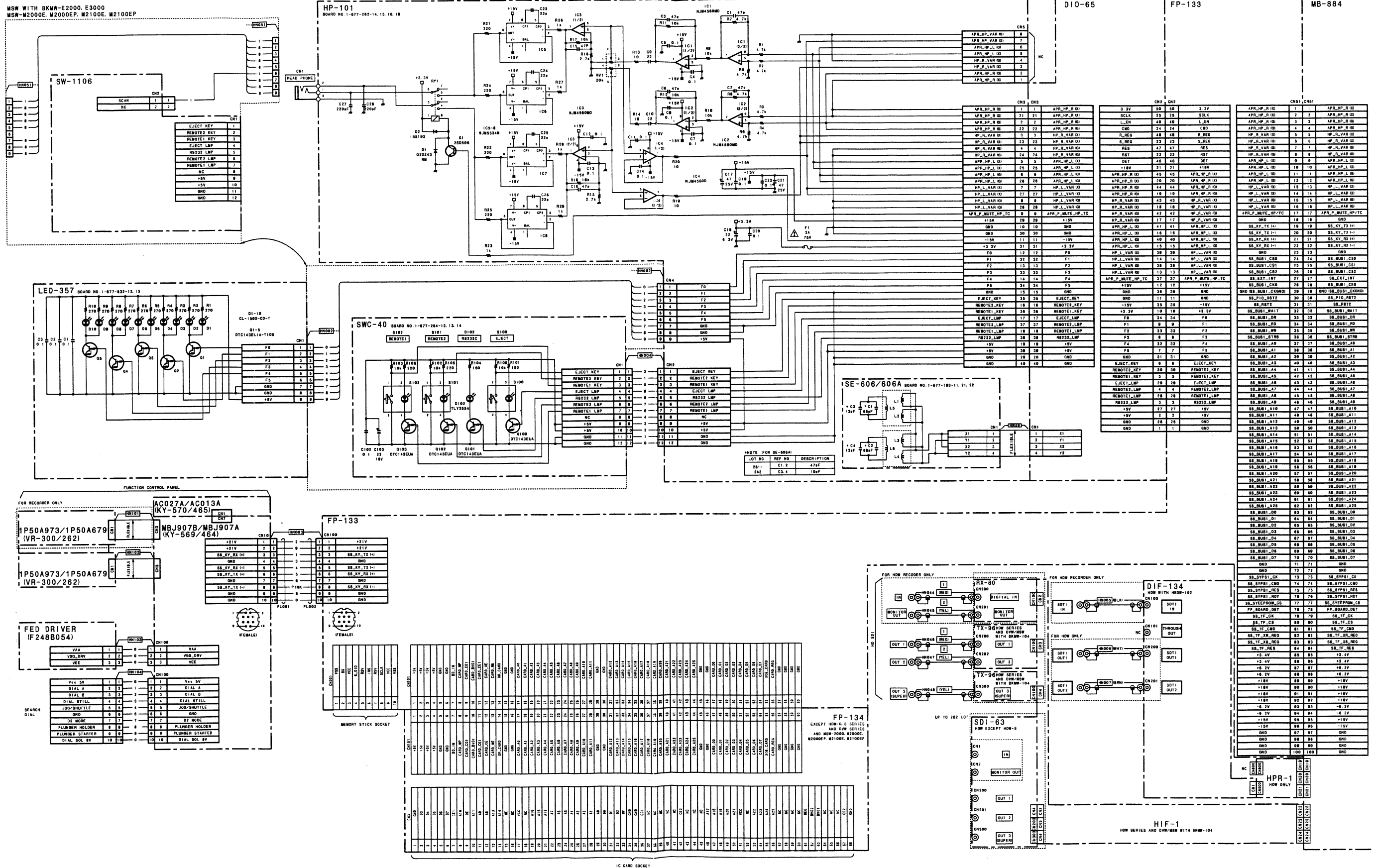
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1-392

1-392

HDW series, DVW series, MSW series

A

B

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D

E

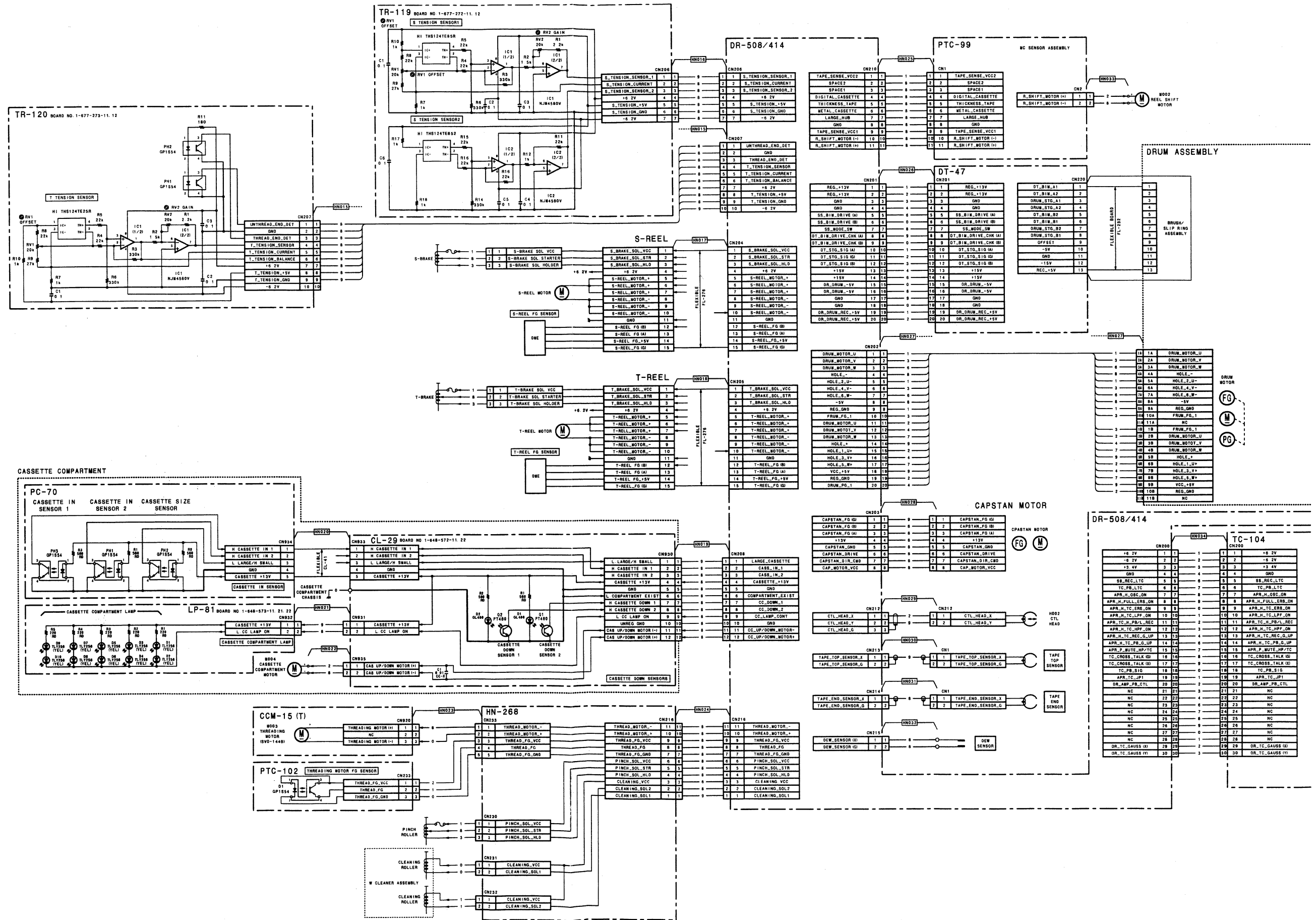
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Frame Wiring (1/2)





1-394

1-394

HDW series, DVW series, MSW series

Frame Wiring (2/2)

